



**FACILITIES  
FOR  
SMALL INDUSTRIES**

**WHAT AND WHERE AVAILABLE**



**CENTRAL SMALL INDUSTRIES ORGANISATION  
MINISTRY OF INDUSTRY & SUPPLY  
GOVERNMENT OF INDIA, NEW DELHI**



## FOREWORD

People from many walks of life have evinced keen interest in participating in the growth of large, medium and small scale industries in the post-independence period. To acquaint them with the facilities available under the Small Scale Industries Programme, the Central Small Industries Organisation brought out a booklet titled 'Information for Small Industries' in 1958 which was well received. Subsequent changes in the policy and programmes necessitated a revised edition which was published in July, 1960. This edition, again, was quite popular and all copies were quickly sold out. The third revised edition 'Facilities for Small Industries' incorporates the latest policy changes and endeavours to give the reader basic information on various aspects of small industry development. Any reader, be he a prospective industrialist or not, who is interested in this programme and who finds his appetite whetted by this modest booklet, is invited to visit the Small Industries Service Institute of his state and ask for more of our publications and also to meet the specialist officers there for information.

(N. KHOSLA)

*Joint Development Commissioner*



# FACILITIES FOR SMALL INDUSTRIES

## I. GENERAL

### Small-Scale Industries and the Third Five Year Plan

For the Third Plan period the outlay on the Central Government Schemes and Schemes of State Governments for the development of small-scale industries including that of industrial estates is of the order of Rs. 114.8 crores. The allocation for small-scale industries during the Second Five Year Plan was only half of this amount, that is, Rs. 55.57 crores. The objectives of the programme for the development of small-scale industries in the Third Five Year Plan are: to provide employment, to meet a substantial part of the increased demand for common consumer goods and simple producer goods and to provide the basis for a progressive and efficient decentralised sector closely integrated with large-scale industries in the form of ancillary industries. The scale of effort in the Third Plan has been broadened further and emphasis is on promotion of these industries in rural areas and small towns.

The programme continues to be guided by the following approaches :—

- (1) The relative contribution of small and large industries in meeting the growing requirements of the community has been defined as part of Common Production Programme for various industries.
- (2) Small units are being assisted to bring up their organisational and technical efficiency.
- (3) Artisans and craftsmen are being helped to organise on co-operative lines especially in the rural areas.

### Definition of Small-Scale Units

The development programme for small-scale industries caters to industrial units with a capital investment of not more than Rs. 5 lakhs towards land, building, machinery and equipment, irrespective of the number of persons employed. This definition is, however, applied with a certain amount of flexibility. The small industries programme does not include those industries which come under the purview of other organisations, viz. Handlooms and Powerlooms, Khadi & Village Industries, Handicrafts.

Coir and Silk. However, since the capital requirement of organising the production of ancillaries and components on efficient lines in certain industries will be of a much higher order, it has been decided to relax the capital ceiling up to Rs. 10 lakhs in respect of industrial units working as ancillaries and manufacturing components etc. to the following industries :

1. Industrial Machinery
2. Agricultural and earth moving machinery
3. Machine Tools
4. Industrial scientific and mathematical instruments (mechanical)
5. Locomotives and rolling stocks, ships and aircrafts
6. Bicycles
7. Boilers and steam-generating plants.
8. Steam engines, turbine and internal combustion engines
9. Automobiles
10. Commercial office and household equipment
11. Electrical machinery, equipment & appliances
12. Tele-communication equipment
13. Industrial instruments (Electrical)
14. Radios and electronic equipment.
15. Air conditioners and cold storage equipment including refrigerators.

The criteria has been revised to include units which are set up primarily to manufacture parts and components for replacement market.

These units will be eligible for the following types of assistance only:—(a) technical assistance from the Small Industries Service Institutes, Extension Centres, etc. (b) supply of machinery under hire-purchase scheme, and (c) allotment of factory sheds in the industrial estates.

### **No Licence required**

An impression seems to be prevalent among some people that there are some restrictions imposed on setting up small scale industrial units and that licences from either the Central or State Government are to be taken out before an entrepreneur proceeds to take steps to start a small scale industrial unit. This impression is not correct. It is open to any entrepreneur to set up an industrial unit in the small scale sector as defined

in the preceding paragraph. For establishing such a small scale industrial unit no formal permission from the State or the Central Government is necessary. However, in the case of small scale units which are desirous of undertaking manufacture of items requiring imported components, prior approval of their production programme by the Development Commissioner (Small Scale Industries) is necessary. It may also be mentioned that industries having fixed assets of less than Rs. 25 lakhs need not obtain any licence under the Industries (Development and Regulation) Act.

Small scale units have, however, to conform to rules and regulations prescribed by States or local authorities *e.g.* under the Factories Act, Commercial Establishments Act, Town Planning rules, rules made for issue of quotas of raw materials, etc.

As already pointed out, powerlooms do not come under the purview of the small scale industries programme. For installing powerlooms, prior permission of the Textile Commissioner, Government of India, Bombay, is required.

### Registration of Small Scale Industries

Recently, the Government of India have decided to collect statistics relating to employment and production in the small scale sector so that the development of small industries may be co-ordinated with the planning and progress of the large industries in the country. By gazette notification of 1st April 1960, the Government have decided to widen the coverage under the Industrial Undertakings (Collection of Information and Statistics) Rules, 1959. All undertakings engaged in the production of any of the articles in the first schedule of the Industries (Development and Regulation) Act and employing 10 or more workers but not more than 49 workers are also now required to submit quarterly returns to the Director of Industries of the States.

In their own interest, all existing small scale units or intending entrepreneurs employing more than 10 workers should get themselves registered with the Director of Industries of their State. A copy of this application for registration should also be sent to the Director of the Small Industries Service Institute in the concerned State. Such registration with the Director of Industries will be of considerable help to the small scale unit in obtaining financial assistance from the Government and also for obtaining machinery on hire purchase basis from the National Small Industries Corporation. Assistance in the supply of controlled raw materials, essentiality certificate for imported raw



materials and components, facilities for export promotion etc., could be more easily made available to small scale units registered with the State Director of Industries. Registration number is now required to be quoted while submitting import applications.

## II. ORGANIZATION

The development of small scale industries is primarily the responsibility of State Governments. The Government of India, however, has been playing an increasingly important role in planning and coordinating the programmes of development, in providing technical and marketing services and in providing financial assistance. The Government of India have set up a Small Scale Industries Board with the Minister of Industry as Chairman, for coordinating and planning the development programme. This is an advisory board consisting of Central and State Government officials, representatives of the Reserve Bank of India, State Bank of India, State Financial Corporations and a number of non-officials from industry and trade. The Central Government organisation for development of small scale industries is headed by the Development Commissioner for small scale industries. Broad functions of Central Government agencies are :—

I. Industrial Extension Service (of the Central Small Industries Organization)	Provides technical consultant services to small entrepreneurs and to State Governments.
II. National Small Industries Corporation.	Supplies machinery on hire purchase provides commercial and marketing services to small scale units.

### *Functions of Central Government Agencies.*

The Industrial Extension Service has been set up by the Government of India as a direct servicing agency to small scale industries. Several units are not normally in a position to engage skilled technicians or business consultants and this extension service is intended to meet this requirement. The main functions of this service are as follows:—

- (1) To conduct economic surveys in particular industries and areas, and make concrete recommendations for a development programme.
- (2) To advise small units on improved technical processes and use of modern machinery and equipment.
- (3) To prepare designs and drawings for machines and machine parts, equipment, dies, jigs, tools and fixtures.
- (4) To demonstrate the use of modern technical processes through workshops in Extension Service Cen-

trics and also small mobile workshops mounted on trucks.

- (5) To extend knowledge of the latest tools and techniques of Management, particularly in the fields of Production Planning and Control, Financial Accounts, Cost Analysis, Marketing and Advertising.
- (6) To undertake distribution aid surveys with a view to assisting small manufacturers in determining major distribution centres for their products, establishing contacts with important wholesale and retail dealers and obtaining dealers' and consumers' reactions to price, quality and design of products.
- (7) To act as an Information Centre, including the publication of bulletins, pamphlets, model schemes and answering of enquiries for economic and commercial information.
- (8) To carry out research on questions like proper use of raw materials, improved designs of machinery etc.
- (9) To conduct training classes in such subjects as blue-print reading, heat-treatment and foundry for the benefit of small industrialist and artisans.
- (10) To help in the development of ancillary units.

The Industrial Extension Service is based on 16 Small Industries Service Institutes and 5 Branch Institutes and a number of Extension Centres, staffed by technical and economic officers. In addition to their other duties, the officers also constantly tour the areas within their jurisdiction and visit small industrial units. Technical advice is given by correspondence as well as on the spot. A list of Institutes, Branch Institutes and Extension Centres, with their addresses is given in Appendix I.

The office of the Development Commissioner, Small Scale Industries, has published model schemes and technical bulletins for the use of intending manufacturers (See Appendix II). Copies of the model schemes and technical bulletins which are nominally priced, are locally available with the Small Industries Service Institutes. Schemes etc. can also be obtained by post from the Manager of Publications, Civil Lines, Delhi-6. The model schemes broadly indicate the type of machinery, the amount of the raw materials and the working capital required for starting a particular small scale industry. The main concern of the Institutes and the Extension Centres is to direct technical advice and instruction to small scale units. Small units may apply to any of the Institutes or Extension Centres for technical advice.

## Functions of State Government Agencies

The primary responsibility for administrative and other measures for the development of small scale industries is that of the Director of Industries of the respective State. The closest liaison is maintained between the Institutes run by the Central Government and the State Directorates of Industries and the services of the technical staff of the Institutes are made available to the State Directors of Industries whenever necessary. The main functions of the State Directors of Industries are as follows:—

- (i) All enquiries relating to the establishment of new small scale units, their location and requests for assistance towards the same.
- (ii) Financial assistance to small scale units under the State Aid to Industries Act.
- (iii) Supply of raw materials, electric power, transport facilities.
- (iv) Requirements of land.
- (v) Development of Industrial Estates.
- (vi) Grant of essentiality certificates for import licences, raw materials, components etc.
- (vii) Training facilities.
- (viii) The organization of co-operatives and other forms of assistance.

All enquiries for such assistance and for information thereon should be addressed to the State Directors of Industries.

## Industrial Estates

The existing units are generally situated in small congested areas with no space for expansion. The Third Five Year Plan provides a sum of Rs. 30.2 crores for construction of Industrial Estates. The Estates are intended to provide better accommodation for housing industries with facilities of power, water and transport and other external economies for their advancement e.g. establishment of common servicing centres, introduction of modern techniques, collective purchase of raw materials and sale of finished products and cultivation of the cooperative spirit among manufacturers. The buildings in these Estates can be let out on rent or on hire-purchase terms or on outright sale basis subject to terms and conditions prescribed. A list of industrial estates already constructed, or under construction or for which preliminary action is in hand is given in Appendix III.

## Private Industrial Estates

In view of the growing interest shown by the small industrialists in acquiring a shed in the industrial estates, Government of India have agreed to the establishment of industrial estates by the private agencies as well. The State Governments have been advised to encourage setting up of such estates.

According to the scheme, an industrial estate cooperative society of small industrialists or a company formed for the purpose, is entitled to get loans from banks and other credit institutions against the guarantee of the concerned State Government. The commercial banks have also been authorized to advance loans to such societies/companies against the security of the land and factory sheds. In case the societies are registered under the Cooperative Societies Act, they can also draw on the facilities offered by Central Co-operative Banks for this purpose. The industrialists are required to raise by way of share capital  $1/6$  to  $1/5$  of the total sum needed for such industrial estates and  $1/4$  to  $1/3$  in the case of companies. These loans are repayable in a period varying from 7 to 10 years.

The Life Insurance Corporation of India have also got a scheme to advance loans to industrial cooperatives and joint stock companies of beneficiaries formed for setting up of industrial estates. The terms and conditions for such loans are given in Appendix IV.

## III. SUPPLY OF MATERIALS

For procuring controlled raw materials, such as, steel, copper and other non-ferrous metals, whether indigenous or imported, small scale industrial units have to approach the Directors of Industries of the States for the necessary allocation of quotas. Due to the prevailing shortages of some categories of steel (wire, sheets etc.) copper and non-ferrous metals in the country, it has not been possible to meet the full demand of the existing units and the Directors of Industries have been advised not to encourage new units based on these scarce categories of raw materials.

In view of the anticipated increases in indigenous production of steel, Government have decided that the existing procedure for acquisition and distribution of steel should be further liberalized.

According to the latest policy announced in the Government of India Gazette Extraordinary dated March 1, 1964, statutory control over prices and distribution of iron and steel materials

other than the following has been withdrawn with immediate effect:—

- (i) Pig iron including ingot moulds and bottom plate.
- (ii) Billets including tin bars.
- (iii) Tinplates.
- (iv) Black Sheets (Plain) including Coils.
- (v) Black Sheets (Corrugated).
- (vi) Galvanized sheets (Plain).
- (vii) Galvanized sheets (Corrugated).
- (viii) Plates.
- (ix) Skelp.
- (x) Hoops and Wide Strips.
- (xi) Defective material of any of the above noted categories.

The aforesaid categories will be known as 'controlled categories' and all others as 'free categories'.

### **Wire Drawing Units**

The products of the wire drawing units i.e. all types of drawn wires and wire products are treated as free categories. Control over both price and distribution of these materials, therefore, stands withdrawn.

### **Cement**

The small industrial units have to depend for their requirements on the State cement quotas.

### **Non-ferrous Metals**

A quota of copper has been allocated to each State Government for the use of small scale industries. Small scale units should apply to the State Director of Industries for an allocation. The Development Officer (Metal), Directorate General of Technical Development, New Delhi, will issue permits to those small scale units who are given allocations by the State Director of Industries concerned. The allotment of non-ferrous metals for Small Scale Industries had been steadily increasing. Besides copper, quotas of tin, lead, nickel and zinc have also been allotted to State Governments for distribution to small scale units. The Small Scale Industries Board has advised the State Governments and the small scale industries to encourage the use of aluminium wherever possible and to use copper for increasing the production of electrical and other goods, with a view to ensuring the utilisation of this scarce raw material for industrial purposes only.

## Chemicals

There are a number of raw materials required for chemical industry. The position of availability in a few cases is easy while in others it is not so. The small industrialists are, however, advised to find out from their respective Director of Industries about the availability of particular raw materials before embarking on their particular field.

## IV. IMPORT FACILITIES

Actual Users' applications from small scale industries for import of essential raw materials, machinery and components will be considered by the Licensing Authorities at the ports except that the applications in respect of items which are centralised with a particular Licensing Authority as shown in Appendix 71 of the Red Book may be made to the particular Licensing Authority. (This Appendix is reproduced as Appendix V to this booklet). Actual Users' applications should be made in the prescribed form and manner and be supported by the essentiality certificate from the State Director of Industries. In the case of textile engineering industries, pharmaceutical industry and handloom industries, the essentiality certificate should be furnished from the Textile Commissioner, Bombay, the State Drugs Control Authorities (as shown in Annexure IV to Appendix 19 of the Red book), State Directors of Handlooms respectively. To assist the small scale units, the form of essentiality certificates to be granted by the State Director of Industries concerned have been simplified and are reproduced in Appendix VI.\* The small scale units should, in their own interest get themselves registered with the concerned State Director of Industries as registration number is now required to be quoted while submitting import applications.

The small scale industries should mark their applications with capital letters 'S.S.I.' and give registration number in order to facilitate quick disposal.

In the case of industries in the small scale sector applications for capital equipment including machine tools of permissible varieties up to Rs. 5,000 should be made to the Port Licensing Authorities concerned. Applications for capital equipment (other than machine tools) for value in excess of Rs. 5,000 should be made to the Chief Controller of Imports and Exports, New Delhi. Applications for banned type of machine tools and for permissible varieties of machine tools for value exceeding Rs. 5,000 and below Rs. 1,00,000 should be made to the Development Officer (Tools), Tools Directorate, New Delhi

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\*Please see Appendix 44 of the current Red Book.

(for application form a reference may be made to Appendix 6 of the Red Book). Such applications will be dealt with as and when received (See Appendix VII).

In view of the country's limited foreign exchange resources, the possibilities of obtaining import licences for capital goods are limited to cases where either (i) the applicant himself can make satisfactory arrangements for raising external finance or (ii) the Government have facilities in the shape of credits or payment arrangements with particular countries to finance such imports.

As regards (i) above, the forms of financing acceptable to the Government are investment in equity capital of the company on long-term loans.

As regards (ii) above, viz., the import of machinery out of the credits or payment arrangements by the Government, it is hoped that facilities will, as hitherto, be available with most countries which have been important suppliers of machinery to India. The size of these credits, however, is smaller than the demand for them. In view of this, applicants for import licences for capital goods should clearly specify the countries from which imports are to be made, instead of merely indicating the currency area in vague terms. Alternative sources of supply in the order of preference should also be indicated.

It is also essential that applicants should clearly indicate whether, in the event of their being given an import licence against the credits available to the Government, they would be in a position to find the rupee resources and take advantage of the licence granted. Applications for the import of Plant and Equipment required for setting up of an industrial unit or for expansion of the existing unit for developing the country's exports will be dealt with on the basis of special priority. In such cases, applicants should provide full information regarding the exports that they propose to undertake. Details should also be furnished of the sources of supply of equipment and of the financing arrangements proposed, it being understood that there will be continuing export earnings from the project apart from the financing of the cost of the equipment and raw materials.

It has been decided that licensing authorities at ports may issue advance licences for import of essential raw materials on suitable recommendations made by the State Director of Industries initially for 3 months only on the basis of approved single-shift working provided they are satisfied that firm order for machinery have been placed. Subsequent licences to such units can be issued only after the machinery have been installed and they have gone into production.

## V. CREDIT FACILITIES

Loans to small-scale units, including industrial cooperatives are available under the State Aid to Industries Act administered by the State Director of Industries. Medium and long-term loans are also available from State Finance Corporations or Cooperative Banks. Short-term loans to small-scale units are advanced by the State Bank of India.

### *Liberalised Terms under the State Aid to Industries Act*

The terms on which loans are granted to small scale units under the State Aid to Industries Act have been progressively liberalised. Loans up to Rs. 1,000 are being advanced by most State Governments on personal bonds, up to Rs. 5,000 against two personal sureties and above Rs. 5,000 at 75 per cent of the security offered, which includes land, building, machinery, equipment, stocks and other assets, etc. including, those created out of the loan. These loans are repayable in easy instalments, spread over 10 years. The rate of interest charged varies from State to State. A table showing the rates of interest charged by different States is given at Appendix VIII. In many States, powers have been delegated to District Industries Officers or District Magistrates for distributing loans up to Rs.2,000. To help industrial cooperative societies for building up their resources, 75 per cent of the share capital is offered by the Centre as a two-year loan, the balance to be obtained from the State Governments and/or the party concerned. It may be noted that procedure varies from State to State and details may be obtained from the Director of Industries of the State concerned.

### **State Bank of India Scheme**

In order to evolve a procedure for coordinating the activities of the various credit agencies, the State Bank of India has started a scheme for assistance to small-scale industries. Under the scheme an applicant for credit, instead of having to approach a number of agencies, has only to go to one local agency, whether it be a branch of the State Bank or a Cooperative credit institution. The local agency will receive and deal with applications for all types of loans. It will either itself dispose of the application or will forward it to the appropriate agency. Steps have also been taken to liberalise the State Bank's procedure, so that it is now possible for the Bank to extend at all branches credit facilities to small-scale industries, against pledge of raw materials and/or finished or semi-finished goods either on lock and key or factory-type basis. It is also proposed, in appropriate cases, to offer clean type accommodation backed by the guarantee of another suitable person.



## State Financial Corporations

The Small Scale Industries Board had recommended to State Governments that at least 10 per cent of the block loans to small scale industries should be routed through the State Financial Corporations. The State Governments of Andhra Pradesh, Kerala, Punjab, Rajasthan and Uttar Pradesh have already appointed Corporations in the States as their agents for routing these loans.

The State Financial Corporations also advance medium and long-term loans to small-scale industries out of their own funds. Generally the Corporations advance loans, to any single concern, between Rs. 25,000 and Rs. 10,00,000. The rate of interest charged is normally 7% per annum subject to rebate of  $\frac{1}{4}$ % per annum for prompt repayments. The names and addresses of the Corporations are given at Appendix IX.

## Reserve Bank Credit Guarantee Scheme

This scheme formulated by the Government of India for guaranteeing loans granted to small-scale industries by banks and other financial institutions, has come into force from July 1, 1960.

The main object of the scheme, which will operate on experimental basis for a period of two years, is to enlarge the supply of institutional credit to small-scale industrial units by ensuring a degree of protection to the lending institutions against possible losses in respect of their advances. The scheme provides for the sharing of such losses between the lending institutions and the Government of India. To begin with the scheme was made operative in 22 districts selected on the basis of the relative importance of outstanding loans to small-scale industrial units and the potentialities for further expansion of such loans. The scheme has now been placed on a permanent basis and its area of operation has been extended to cover the entire country. The scheme provides guarantee of advance by 93 selected credit institutions comprising 49 scheduled Banks, 21 State Cooperative Banks, 14 State Financial Corporations and the Madras Industrial Investment Corporation besides the State Bank of India and its seven subsidiaries. The maximum amount recoverable against the guarantee issued under the scheme in respect of any advance will be Rs. 1 lakh.

The Reserve Bank of India has been entrusted with the administration of the scheme as agent of the Government of India. The entire work connected with the scheme is attended to by the Guarantee Organisation Division of the Bank's Industrial Finance Department at Bombay.

## VI. EXPORT PROMOTION

The Government of India have recently introduced a scheme for the enrolment of exporters as an export promotion measure. They will be enrolled through export Promotion Councils and Commodity Boards in respect of commodities under their charge and Director-General of Commercial Intelligence and Statistic, Calcutta for other commodities. (Names and addresses of the Export Promotion Councils and Commodity Boards are given in Appendix X).

The scheme envisages enforcement by the enrolling authority of minimum recognised standards for the conduct of business on the part of exporters; on the other hand such enrolled exporters would be enabled to take advantage of the special schemes for the promotion of exports introduced from time to time.

## VII. THE NATIONAL SMALL INDUSTRIES CORPORATION

The main functions of the National Small Industries Corporation established in 1955 are the following:—

1. Supply of machinery to small units on hire purchase basis.
2. Assistance to small units in securing contracts from the Central Government Stores Purchase Agencies for supply of stores.
3. (a) Assistance in the marketing of leather footwear both in internal and overseas markets.  
(b) Distribution of radio and transistor valves manufactured by M/S Bharat Electronics Ltd. to small scale radio manufacturers.
4. Management of Prototype Production and Training Centres at Delhi, Rajkot and Howrah.

The Corporation has three Branches. The addresses of the Corporation and its branches along with their jurisdiction are given below:—

Name of the Corporation	Jurisdiction
1. The National Small Industries Corporation Ltd., Rani Jhansi Road, New Delhi.	All-India (Delhi Cell is concerned with U.P., Punjab, J&K, Rajasthan, Himachal Pradesh and Delhi).
2. The National Small Industries Corporation Ltd., 5th Floor, Janmabhoomi Chambers, Fort Street, Bombay.	States of Maharashtra, Gujarat and Madhya Pradesh.
3. The National Small Industries Corporation Ltd., 116-A, Lower Circular Road, Calcutta.	States of West Bengal, Bihar, Assam, Orissa, Manipur and Tripura.

4. The National Small Industries Corporation Ltd., 150-A, Mount Road, Khivraj Mission, Madras.

### (1) Hire Purchase Scheme

The object of the scheme is to render assistance to small units for purchase of machines and plant and repayment of the amount in easy instalments.

Request for supply of machines on Hire Purchase basis has to be made in the prescribed application form, obtainable from the Offices of the NSIC, the Offices of the Directors of Industries and Small Industries Service Institutes. All applications are to be forwarded through the State Director of Industries. Only such applications as are recommended by the Director of Industries are considered by the Corporation.

Applications are considered taking into account the industry involved, the raw material required and the foreign exchange required for importing the machines. Certain industries where sufficient capacity already exists are not encouraged by the Corporation.

On acceptance of the application by the Corporation and subsequently when offers are made to the small units for the machines accepted for supply, an earnest money of 20 per cent of the value of machines (30 per cent in case of Industrial furnaces) is required to be paid in one instalment before the placement of order. The percentages are worked on the basis of f.o.r. cost for indigenous machines and applicants landed cost (duty & clearing charges) for the imported machines.

The applicants are also required to pay a service charge in instalments based on the value of the machines supplied. The interest charged is normally 6%. Complete details regarding the terms and conditions for supply of machines are available with the offices mentioned earlier.

Applicants are required to obtain quotations as far as possible from manufacturers or their agents for the machines asked for and valid quotations are to be enclosed along with the application.

In view of the limited foreign exchange available and the large number of applications being received a special Committee has been constituted, with the Development Commissioner as its Chairman, to look into cases involving import of machinery. This Committee consists of technical officers from the Office of the Development Commissioner, Small Scale Industries, representatives from the office of the Chief Controller of Imports & Exports and NSIC and takes decision taking into account the

availability of foreign exchange, the capacity still available for an industry, the availability of raw materials and other factors.

## (2) Government Purchase Scheme

The National Small Industries Corporation assists small scale units in securing Central Government contracts for supply of stores. In order to avail of this assistance it is necessary that the small scale units should get themselves enlisted with the Small Industries Service Institutes of their respective areas. The addresses of these Institutes are given on the last cover page.

In respect of items which could be manufactured by small scale units already enlisted with the Small Industries Service Institutes, tender sets issued by the Directorate General of Supplies & Disposals are supplied free of cost to such registered units. The D.G.S. & D. also considers price preference in respect of tenders received from small scale units.

The units receiving Government contracts are likely to require technical and financial assistance for the satisfactory execution of the orders. The technical help will be given by the Small Industries Service Institutes, while the Corporation will also help to get financial assistance for such units from the State Bank of India, which advances loans to small units on pledge of raw materials (even up to 100 per cent of the value of raw materials).

In consultation with the Director-General of Supplies and Disposals, a list of items reserved for procurement from small scale units has been drawn up. The list includes the following items:—

1. Brass padlocks
2. G.I. Padlocks
3. Brass dampers
4. Boxes made of metal (excluding Army requirements)
5. Sign Board—painted.
6. Buttons-metal
7. Postal weighing scales
8. All badges, cloth embroidered and metals (civil requirements only)
9. Belt leather (apparel)
10. Cash bags
11. Dust shield leather
12. Chappals and sandals
13. Leather boxes (not army type)

14. Laces leather
15. Leather bags
16. Boots and shoes of types required by Civil indentors
17. Glass ampoules
18. Handles wooden and bamboo.
19. Soap washing or laundry soap (against civil indents only)
20. Metal polish
21. Scissors cutting (ordinary scissors)
22. Coir fibre and coir yarn
23. Postal lead seals
24. Cotton hosiery (against civil indents only)
25. Woollen hosiery (against civil indents only)
26. Keys-wooden
27. Stone curry and stone curry roller
28. Caps-cotton (against requirements of civil indentors)
29. Curtain-mosquito (against requirements of civil indentors)
30. Tape-cotton (against requirements of civil indentors)
31. Bandage cloth (against requirements of civil indentors)
32. Garments (against requirements of civil indentors)
33. Wicks cotton (against requirements of civil indentors)
34. Stockinette (against requirements of civil indentors)
35. Rags-cotton (against requirements of civil indentors)
36. Blacksmith-hearth
37. Kodali (Pick-axe)
38. Basket-cane
39. Lathies
40. Caps woollen
41. Belts leather & strips
42. Wheel barrows
43. Tarpaulin (against requirements of civil indentors)
44. Brushes
45. Brooms
46. Steel trunks (against requirements of civil indentors)
47. Hides & country leather of all types (against civil indent)
48. Railway platform-drinking water trolleys (against civil indent)
49. Umbrellas (against civil indent)
50. Animal driven vehicles (against civil indent)

51. Skin-sheep all types (against civil indent)
52. Hand drawn carts of all types (against civil indent)
53. Sole leather (against civil indent)
54. Leather harness (against civil indent)
55. Ghamellas (against civil indent)
56. Dust bins (against civil indent)
57. Utensils cooking (except stainless steel)
58. Bags-ice, head (against civil indent)
59. Wooden packing cases of all sizes (against civil indent)
60. Lamps-signal (against civil indent)
61. Gauge surgical all types (against civil indent)
62. Patient coats and pyjamas (against civil indent)
63. Dusters cotton all types (except the items required in Khadi) (against civil indent)
64. Hair pasham wool
65. Nail tip heel rustless
66. Cumblies
67. Leather washers
68. Metric Weights
69. Tin trays
70. Teak fabricated round blocks

### **) Marketing Assistance**

#### *(a) Marketing of leather footwear*

Since 1956 a Wholesale Depot has been functioning at Agra for marketing of leather footwear. The Depot accepts only such shoes from the small fabricators as conform to the specifications laid down by it. Such products are branded "Jan-sevak" and marketed through a network of distributors throughout the country. The Corporation has also been exporting shoes. The bulk of the exports has been to the U.S.S.R., the other countries to which the shoes have been exported include G.D.R., Poland, Hungary and Bulgaria.

#### *(b) Distribution of radio and transistor valves*

The Corporation has undertaken the distribution of radio valves manufactured by M/s Bharat Electronics Ltd., to the small scale manufacturers. With the undertaking of this activity the Corporation has been able to make available the radio valves to small scale manufacturers at the same price as will be available to the large scale units.

#### (4) Prototype Production & Training Centre

Three Centres at Okhla (Delhi), Rajkot and Howrah have been set up in collaboration with the West German Government, T.C.M. of the United States of America (now U.S.A.I.D.) and the Government of Japan respectively. The main functions of these Centres are to develop prototypes of machines for commercial exploitation by small manufacturers and training of artisans drawn from small scale industries. The Centre at Okhla has also undertaken production programme in respect of 3 machines namely Weiler Lathe, Tool & Cutter Grinder and Milling Machine, the manufacturing rights in respect of which have been presented by the Government of West Germany to the Government of India. A number of lathes have since been produced and marketed. The preliminary work in respect of other machines has been completed. The centre at Rajkot has also produced number of machines like Wood Working Lathe and Blot and Disc Sander.

Both the Centres at Rajkot and Okhla have introduced training courses in different trades.

### VIII. FOREIGN COLLABORATION

The Government of India welcomes foreign capital in desired fields and its investment in industries which are considered to be of national importance. Generally, permission is not granted for investment of foreign capital in purely financial, commercial or trading concerns except in such cases where technical know-how is an essential aspect of the trading activities. It is the desire of Government that the majority interest in ownership and effective control of the undertaking should remain in Indian hands, but exceptions can be made in cases where Indian capital is not forthcoming or the schemes are in the national interest. In such cases, however, when expansion is contemplated, greater association of Indian capital may be insisted upon. It is expected that adequate provision will be made by the foreign enterprise for the training of Indian personnel for technical and administrative posts. Very often this is made a condition before foreign investment is permitted in any line of manufacture.

Regarding agreements with overseas firms for technical collaboration or financial participation, the need to consider each case on its merits cannot be dispensed with. A draft agreement should be submitted to the Ministry of Industry in five copies keeping in view the following points of principle, in broad terms:

1. The technical collaboration agreements should have a limited period of life, and, as a rule, not exceed ten years.
2. The agreement should not lay down any restrictions on exports from India. Even if it is not possible to get freedom to export to all countries, permission for exports to some countries should be necessarily there.
3. A point which often creates difficulties in the way of Government approving collaboration agreements is the stipulation that certain products will be imported only from the foreign firm collaborating in the project. While it is understandable that the Indian participant may prefer to obtain specialised terms from his overseas collaborator, Government are averse to approving a clause in the agreement which will restrict the freedom of choice of the Indian firm.
4. Another undesirable feature in some agreements, which creates difficulties and delays in approval is the provision for payment of a minimum royalty, when payments are to be related to turnover, it is reasonable to expect that these would vary with the turnover and no payments would be guaranteed regardless of turnover.
5. For permission to issue shares to the foreign collaborators or to remit royalties, technical services charges, etc., applications are now to be made direct (in quadruplicate) to the Government of India, Ministry of Industry (Industrial Policy Section), New Delhi. The Government of India will inform the applicants of their decision, while formal authorisation under the Foreign Exchange Regulation Act, 1947, will be issued by the Reserve Bank of India, Bombay. The above procedure will apply to all industrial units, whether new or embarking on an expansion which entail foreign capital participation and/or technical collaboration involving payments of royalty, technical fees etc. to the foreign collaborator.

## IX. TRAINING PROGRAMME

Training is the central core of the Industrial Extension Service rendered by the Central Small Industries Organisation through the various Small Industries Service Institutes, Extension/Production Centres. The training courses provided are not intended for fresh students but for persons already engaged in small industries. In order to equip them with the latest tools and techniques in their respective technical fields; the training programme



incorporates extensive technical and managerial subjects for improvement of skills at various levels in the small scale units. Training of personnel is arranged for varying periods depending upon specific needs for each area at various Small Industries Service Institutes, Extension/Production Centres and other specialised institutions.

### **Training in Industrial Management**

Management Courses are designed for small entrepreneurs or their employees engaged in managerial duties. These are conducted in the evening at places of the concentration of small industries by the Small Industries Service Institutes. There are three types of courses as under:—

#### *I. Industrial Management Appreciation Courses*

This covers broadly 80 lecture hours within 8 to 10 weeks period. The subjects covered in the Appreciation Course include Introduction to Management Studies, Production Management, Cost and Budgetary Control. Purchasing and Inventory Control, Introduction to Marketing Management, Advertisement and Publicity and Legal Aspects.

#### *II. Specialist Courses*

The courses of 50 lecture hours' duration varying from 4 to 6 weeks period are offered in subjects like Financial Management and Cost Accounting, Production Management and Marketing Management. These courses are intended to give more intensive coverage of the three basic fields of management namely:—

##### *(i) Financial Management and Cost Accounting*

The subjects covered include Financial Management Financial Accounts, Cost Accounts, Financial and Cost Analysis and Budgetary Control.

##### *(ii) Production Management*

The subjects covered include Planning, Organising, Coordinating, Control, Standardisation, Simplification, Purchasing, Storekeeping and Inventory Control and Work study.

##### *(iii) Marketing Management*

~ The subjects covered include Distribution Management, Sales Management, Salesmanship, Market Analysis, Pricing, Publicity, Advertisement and Export Marketing.

### *III. Ad-hoc Courses*

Special short courses on specific tools and techniques of management like Inspection, Quality Control, Work Simplification, Cost Control, Production Planning and Control, Product Development etc. may be conducted if sufficient number of small units in the field request for the same. The contents and duration of these courses are decided on the basis of specific requests.

### **Technical Training**

Regular and ad-hoc training courses in various technical areas are being conducted by the Small Industries Service Institutes and Extension Centres for artisans, both skilled and semi-skilled, and supervisors for improving their existing skills and broadening their areas of competence to meet the specific requirements of the small industries. Broadly, the technical courses available are as follows:—

#### *A. Shop Practice Courses*

These courses are eminently suitable for senior artisans for broadening the field of technical competence for shouldering supervisory responsibilities covering all the shop operations.

1. Machine Shop Practice
2. Tool Room Practice
3. Foundry Practice
4. Blacksmithy and Forging Shop Practice
5. Electrical Shop Practice (including testing, repairing and maintenance)
6. Carpentry Shop Practice

#### *B. Trade Oriental Courses*

These courses are intended primarily to equip semi-skilled and skilled workmen with advanced knowledge of a particular trade.

1. Tool Maker (Press Tools)
2. Fitter
3. Machinist
4. Sheet Metal Worker
5. Carpenter
6. Pattern Maker

#### *C. Process Oriented Courses*

These courses are intended for persons who are already familiar with the production process in some form or the other or are qualified tradesmen.

1. Heat Treatment

2. Electric & Gas Welding
3. Tanning
4. Leather Finishing
5. Fruit and Vegetable Preservation
6. Electroplating and Anodising

#### *D. Product Oriented Courses*

These courses are also intended for persons having basic knowledge of the manufacture of the products in some form or the other.

1. Footwear and Allied Products
2. Lense Grinding
3. Paints and Varnishes manufacture
4. Glass Beads

#### *E. Part time evening courses*

1. Blue Print Reading

#### *F. Ad hoc Courses*

Ad hoc courses for short periods of training ranging from one month to three months' duration particularly on different processes and products are organised locally to meet the specific requirements of the small scale units.

As stated earlier the technical courses mentioned above are not ment for freshers but for persons having necessary experience in respective fields. The duration of these courses varies from three to six months. These are full-time courses and stipend at the rate of Rs. 40 per tainee per month is also admissible at the- respective Small Industries Service Institutes excepting the part time evening course in Blue Print Reading which is non-stipendiary.

#### **Training in Industrial products**

Training in such products as manufacture of Footwear and Allied goods. Thermometers, Scientific Glass Apparatus, Electric Motors, Tools, Fruit and Vegetable Preservation, etc. are also available at the SISIs/Extension Centres noted below:—

Name of the Training Course	Institutes/Extension Centres
1. Leather, Footwear & Allied goods.	Central Footwear Training Centre, Madras/and Agra, Calcutta, Trichur, Jaipur, Bangalore and Patna.
2. Thermometers .. ..	Solan
3. Scientific Glass Apparatus ..	Ambala
4. Heat Treatment .. ..	New Delhi, Calcutta, Trichur, Indore, Hyderabad, Patna, Cuttack, Bangalore, Bombay, Kanpur, Gauhati Ahmedabad and Ludhiana.

- |  |   |
|--|---|
| 5. Electroplating & Anodising ..           | Indore, Bombay, Hyderabad, Patna, Cuttack, Ahmedabad and Ludhiana.  |
| 6. Carpentry Shop Practice ..              | New Delhi, Calcutta, Trichur, Cuttack, Bombay and Patna.  |
| 7. Machine Shop Practice ..                | New Delhi, Madras, Trichur, Indore, Kanpur, Patna, Ludhiana, Bombay, Bangalore, Hyderabad, Ahmedabad and Ettumanur. |
| 8. Tanning and Leather finishing           | Madras, Calcutta and Bangalore.   |
| 9. Foundry Shop Practice... ..             | New Delhi, Madras, Trichur, Bangalore, Bombay, Kanpur, Hyderabad, Ahmedabad, Ettumanur and Agra.                    |
| 10. Tool Room Practice .. ..               | Calcutta, Madras, Trichur, Bangalore, Hyderabad and Ahmedabad.  |
| 11. Fruit and Vegetable ..                 | Bangalore and Trichur.  |
| 12. Blacksmithy and Forging Shop Practice. | New Delhi, Calcutta, Indore, Ahmedabad, Patna, Cuttack and Ettumanur.   |
| 13. Machinist .. ..                        | Madras, Indore, Cuttack, New Delhi, Ludhiana, Srinagar and Ettumanur.   |
| 14. Pattern Maker .. ..                    | Jaipur, Cuttack, Bangalore and Hyderabad.   |
| 15. Tool Maker (Press Tools) ..            | New Delhi, Kanpur, Ettumanur, Patna, Cuttack and Jaipur.  |
| 16. Electric and Gas Welding ..            | Indore, Cuttack, Trichur, New Delhi and Ettumanur.  |
| 17. Fitter .. ..                           | Bombay, Cuttack, New Delhi and Ettumanur.   |
| 18. Electric Motors .. ..                  | Thiruvalla  |
| 19. Lens Grinding .. ..                    | New Delhi.  |
| 20. Glass Beads .. ..                      | Hyderabad.  |

### **Training and Demonstration through Mobile Workshops**

The mobile workshops attached with various small Industries Service Institutes are visiting areas of concentration of artisans for demonstration and training purposes. Training through mobile vans is imparted to the interested artisans in subjects like blacksmithy, carpentry, sheet metal pottery, leather, glass blowing, general engineering etc.

### **Study-cum-Observation Visits**

As a part of the practical training, visits of the small industrialists and their workers are organised from time to time to large and small scale units to provide them an opportunity to study the modern techniques of production and management.

### **Small Industry Extension Training Institute, Hyderabad**

SIET Institute was set up in 1962. It is a Govt. of India society, financed by the Union Government of India, with the preliminary help of the State Govt. of Andhra Pradesh, where the Institute buildings are located, and with the support in foreign

exchange funds provided by the Ford Foundation. SIET Institute offers a variety of training courses such as Area Development Course, Industrial Management Course, research projects and technical services. A programme for the assessment of the potential in marketing of the products of small enterprises has been initiated in July 1963 with the assistance of a Japanese Export marketing specialist.

The training course offered by SIET Institute is fully residential. The participants live on the Institute premises. It is a part of the training programme to provide opportunities to the participants to live together and thus facilitate exchange of information, promote cross fertilisation of ideas and also create opportunities for adjustment in attitude of minds.

The overall cost of the 12 weeks course is about Rs. 2,400/-. However, for the present, the fee charged is much less. For Govt. officers, it is Rs. 900/- and for other participants the charge is Rs. 1,200/-.

### **X—INVENTIONS PROMOTION BOARD**

The Government of India *vide* its resolution No. SSI (A)-28(43)/58 dated 20-4-59 decided to set up an Inventions Promotion Board. The principal functions of this Board are:

- (i) to encourage and inculcate the spirit of invention amongst independent workers, artisans and technicians.
- (ii) to assist in guiding the country's inventing talent in the most fruitful channels;
- (iii) to promote and implement such ideas, and inventions by suitable technical and financial assistance.

The nature of financial assistance which the Board would give for the foregoing objectives, would be of two kinds, namely :—

- (i) Grants
- (ii) Prizes

Grants would be made for giving financial assistance to the inventor for the development of an invention or an idea having potential promise of improvement in technology and may involve:—

- (i) an outright payment of a sum to meet the anticipated development expenditure;
- (ii) a subsidy for the purpose to supplement his own resources, and/or

- (iii) assistance in kind, such as technical services or experimental facilities, etc.

The quantum of such grants would have to be determined after examining each case individually on the basis of the value of the invention or idea, and the needs of the inventor, but it would not exceed the limit of Rs. 25,000 in each, which may be spread over such periods as may be considered necessary.

All enquiries for Inventions Promotion Board are to be addressed to the Secretary, Inventions Promotion Board, L.I.C. Building, Parliament Street, New Delhi-1.

## APPENDIX I

### LIST OF SMALL INDUSTRIES SERVICE INSTITUTES AND EXTENSION CENTRES

Name of the Institute	Workshop and laboratory facilities available/to be available.
1. SISI, Andhra Pradesh, Hyderabad.	Testing unit for ceramics, chemical and analytical laboratory, laboratory for sand and metal testing.
2. SISI, Assam, Gauhati .. ..	Heat treatment, forge shop, mechanical testing, electric and metal testing, foundry testing and chemical laboratory.
3. SISI, Bihar, Patna .. ..	Chemical laboratory and machine shop.
4. SISI, Gujarat, Ahmedabad ..	Advisory service only at present.
5. SISI, J&K, Srinagar/Jammu	General engineering, carpentry and leather.
6. SISI, Kerala, Trichur .. ..	Technical advice.
7. SISI, Maharashtra, Bombay ..	Tool room and general engg., carpentry and sheet metal, chemical laboratory, ceramics etc.
8. SISI, Madhya Pradesh, Indore	Tool room, general engg., chemical, metallurgical and sand testing laboratory.
9. SISI, Mysore, Bangalore .. ..	Tool room and general engineering.
10. SISI, Madras, Madras .. ..	Tool room and machine shop.
11. SISI, New Delhi .. ..	Tool room and general engg., ceramics, workshop, foundry and foundry sand testing, mechanical testing and chemical laboratory.
12. SISI, Orissa, Cuttack .. ..	Tool room and general engg.
13. SISI, Punjab, Ludhiana .. ..	Tool room and general engg. laboratories.
14. SISI, Rajasthan, Jaipur .. ..	Tool room and general engg., chemical and electrical laboratory.
15. SISI, Uttar Pradesh, Kanpur ..	General engg. and tool room laboratories.
16. SISI, West Bengal, Calcutta ..	Tool room and general engg., chemical, electrical and metallurgical laboratories, metal and sand testing.

#### *Branch Institutes*

- |                                 |       |   |
|---------------------------------|-------|---|
| 1. SISI, Hubli (Mysore) .. ..   | .. .. | General Engg.   |
| 2. SISI, Agra (U.P.) .. ..      | .. .. | General Engg., Metal and sand testing.                            |
| 3. SISI, Allahabad (U.P.) .. .. | .. .. | Tool room and general engg., sheet metal and chemical laboratory. |
| 4. SISI, Rajkot (Gujarat) .. .. | .. .. | Advisory service only at present.                                 |
| 5. SISI, Margao (Goa) .. ..     | .. .. | General Engg.   |

*List of Extension Centres so far Sanctioned Together with their Trades***Andhra Pradesh**

- |                       |    |    |  |
|-----------------------|----|----|--|
| 1. E.C., Sanatnagar   | .. | .. | Heat treatment and electroplating, tool room, general engg. and metal testing. |
| 2. E.C., Vijayawada   | .. | .. | General engineering and foundry.   |
| 3. E.C., Papanaidupet | .. | .. | Glass tubes and glass beads.   |

**Assam**

- |                   |    |    |   |
|-------------------|----|----|---|
| 4. E.C., Tinsukia | .. | .. | Machine shop, heat treatment, blacksmithy and electroplating. |
| 5. E.C., Jorhat   | .. | .. | Machine shop, heat treatment and blacksmithy.                 |
| 6. E.C., Tezpur   | .. | .. | General Engg. and footwear.                                   |

**Bihar**

- |                      |    |    |                                   |
|----------------------|----|----|-----------------------------------|
| 7. E.C., Dhanbad     | .. | .. | General Engg. and Electroplating. |
| 8. E.C., Muzaffarpur | .. | .. | General Engg. and Electroplating. |
| 9. E.C., Ranchi      | .. | .. | Footwear and leather goods.       |

**Gujarat**

- |                         |    |    |   |
|-------------------------|----|----|---|
| 10. E.C., Bhavnagar     | .. | .. | Machine shop, foundry and sand testing.                     |
| 11. E.C., Jamnagar      | .. | .. | Electroplating.   |
| 12. E.C., Savarkundla   | .. | .. | Forging and heat treatment.                                 |
| 13. E.C., Nadiad        | .. | .. | Machine shop, carpentry, forging and heat treatment.        |
| 14. E.C., Udhna (Surat) | .. | .. | Machine shop, foundry, sand testing and mechanical testing. |

**Kerala**

- |                        |    |    |   |
|------------------------|----|----|---|
| 15. E.C., Attingal     | .. | .. | Stainless steel utensils.                   |
| 16. E.C., Alleppy      | .. | .. | General Engineering.                        |
| 17. E.C., Muvattupuzha | .. | .. | Manufacture of Tin containers—Tin printing. |
| 18. E.C., Trichur      | .. | .. | Footwear industry.                          |
| 19. E.C., Vanikulam    | .. | .. | Leather goods.                              |
| 20. E.C., Shoranur     | .. | .. | General Engineering and cutlery.            |
| 21. E.C., Calicut      | .. | .. | Wood working.                               |

**Maharashtra**

- |                    |    |    |   |
|--------------------|----|----|---|
| 22. E.C., Kolhapur | .. | .. | General Engg. and foundry and sand testing. |
| 23. E.C., Varud    | .. | .. | Carpentry and oil engines repair shop.      |
| 24. E.C., Amraoti  | .. | .. | Sheet metal.                                |
| 25. E.C., Poona    | .. | .. | General Engineering and Electroplating.     |

**Madhya Pradesh**

- |                    |    |    |   |
|--------------------|----|----|---|
| 26. E.C., Ujjain   | .. | .. | General Engg. (Machine shop)                |
| 27. E.C., Jabalpur | .. | .. | General Engg. and Electroplating.           |
| 28. E.C., Indore   | .. | .. | Tool room and Machine shop for clock parts. |



- |                         |   |
|-------------------------|---|
| 29. E.C., Gwalior .. .. | General Engg.   |
| 30. E.C., Raipur .. ..  | Machine shop, tool room, heat treatment, forging blacksmithy and welding. |

**Madras**

- |                             |                            |
|-----------------------------|----------------------------|
| 31. E.C., Erode .. ..       | Leather finishing.         |
| 32. E.C., Madurai .. ..     | Genl. Engg. & Blacksmithy. |
| 33. E.C., Coimbatore .. ..  | Foundry.                   |
| 34. E.C., Perundurai .. ..  | Carpentry and smithy.      |
| 35. E.C., Pondicherry .. .. | General Engineering.       |

**Mysore**

- |                          |               |
|--------------------------|---------------|
| 36. E.C., Belgaum .. ..  | General Engg. |
| 37. E.C., Khanapur .. .. | Potterywares  |
| 38. E.C., Mysore .. ..   | General Engg. |

**New Delhi**

- |                           |   |
|---------------------------|---|
| 39. E.C., Balsahyog .. .. | Cane and wooden furniture, sheet metal work, tailoring and leather goods. |
| 40. E.C., Faridabad .. .. | Blacksmithy and carpentry.  |

**Orissa**

- |                             |   |
|-----------------------------|---|
| 41. E.C., Bhubaneswar .. .. | Bell Metal Industry.  |
| 42. E.C., Jharsuguda .. ..  | Machine shop, heat treatment and testing, wood-working- <i>chm</i> -pattern making. |

**Punjab**

- |                           |  |
|---------------------------|--|
| 43. E.C., Ambala .. ..    | Scientific Glassware, blowing & tool room. |
| 44. E.C., Kaithal .. ..   | Carpentry and Blacksmithy.                 |
| 45. E.C., Batala .. ..    | General Engg.                              |
| 46. E.C., Rewari .. ..    | Metal and Footwear.                        |
| 47. E.C., Jullundur .. .. | Sports goods.                              |
| 48. E.C., Jagadhri .. ..  | Metal Testing Laboratory.                  |

**Uttar Pradesh**

- |                           |  |
|---------------------------|--|
| 49. E.C., Meerut .. ..    | Tanning and other facilities regarding sports goods. |
| 50. E.C., Firozabad .. .. | Glass testing facilities.                            |
| 51. E.C., Aligarh .. ..   | Tool room and general Engg.                          |
| 52. E.C., Varanasi .. ..  | General Engg.  |

**West Bengal**

- |                            |                             |
|----------------------------|-----------------------------|
| 53. E.C., Tangra .. ..     | Tanning industry.           |
| 54. E.C., Manicktala .. .. | Footwear and Leather Goods. |
| 55. E.C., Nabadwip .. ..   | Non-ferrous metals.         |
| 56. E.C., Bon-Hoogly .. .. | Ceramics and Glassware      |
| 57. E.C., Bankura .. ..    | Blacksmithy and Carpentry.  |

58. E.C., Maldah .. .. Smithy and Carpentry.  
 59. E.C., Kalyani .. .. Tool Room.  
 60. Model Demonstration W/shop, Carpentry.  
 Baruipur.  
 61. Model Demonstration W/shop, Smithy and Heat Treatment.  
 Habra.

**Rajasthan**

62. E.C., Kotah .. .. General Engineering.  
 63. E.C., Jodhpur .. .. General Engg. and footwear.  
 64. E.C., Udaipur .. .. General Engineering and Electroplating

**Himachal Pradesh**

65. E.C., Solan .. .. Thermometers.

*Production Centres***Kerala**

1. Centre at Thiruvalla .. Manufacture of Electric Motors.  
 2. Centre at Ettumanoor .. Manufacture of Machine and hand tools.

**Maharashtra**

3. Centre at Bombay .. .. Forgings for surgical instruments.

**Uttar Pradesh**

4. Centre at Agra .. .. Manufacture of shoe last.

*Central Footwear Training Centres***Madras**

1. C.F.T.C., Madras .. .. Footwear

**Uttar Pradesh**

2. C.F.T.C. Agra .. .. Footwear.

# APPENDIX II

## LIST OF PUBLICATIONS

(Subjectwise)

### LEATHER BASED INDUSTRIES

Sl. No.	Title and Number	Symbol Number	Price (Re. P.)
(1)	(2)	(3)	(4)
<i>I—Small Industry Scheme</i>			
1*	Combined Chrome & Vegetable Tannery (12) .. .. . C.D.	338	0.15
2	Sheep Skin Tannery (14) .. .. . "	1146	0.10
3@	Chrome Tannery for Cow and Calf Upper Leather (16) .. .. . "	313	0.15
4	Sole Leather (25) .. .. . "	407	0.15
5	Holdalls (28) .. .. . "	345	0.15
6@	Leather Goods Manufacturing Unit (29) .. .. . "	406	0.10
7	Footwear (45) .. .. . "	1154	0.15
8*	'Leather Goods' Factory for Production of Hand-Bags, Purses, Folio Bags etc. (47) .. .. . "	489	0.15
9*	Specialised Lady Shoe Production Unit (48) .. .. . "	520	0.10
10*	Specialised Gents Shoe Production Unit (49) .. .. . "	521	0.10
11@	Cycle Saddle Tops (Leather) (54) .. .. . "	281	0.10
12@	Buff Calf Leather for Chappals (73) .. .. . "	369	0.15
13*	Leather Jerkins (74) .. .. . "	668	0.15
14	Cemented Sandal (75) .. .. . "	1041	0.10
15	Chrome Laces (76) .. .. . "	1126	0.10
16	Box & Willow Sides (83) .. .. . "	364	0.15
17	Footwear Factory (With capital investment of Rs. 34,000/-) (105) .. .. . "	510	0.10
18	Footwear Factory (With capital investment of Rs. 19,000/-) (106) .. .. . "	511	0.10
19	Western Type Footwear (107) .. .. . "	512	0.15
20*	Picking Band Leather Straps (124) .. .. . "	541	0.10
21	Chappals with Indigenous Upper Material, Leather etc. (149) .. .. . "	633	0.10
22	Western Type Gents shoes and Chappals (153) .. .. . "	806	0.15
23	Chappals of All Varieties at Villages (156) .. .. . "	817	0.10
24	Children's Footwear (157) .. .. . "	818	0.10

(1)	(2)	(3)	(4)
25	Dust Shield (Leather) (158) .. .. C.D.	904	0.10
26	Leather for Sports Goods (161) .. .. "	941	0.10
27	Bag Tanned Sole Leather (161) .. .. "	962	0.10
28	Finishing Centre for Bag Tanned Sole leather and Kattai Leather (162) .. .. "	942	0.10
29	Flaying & Carcass Bye Products (164) .. .. "	944	0.10
30	Glance Kid (166) .. .. "	876	0.15
31	Ammunition Boots (169) .. .. "	1062	0.10
32	Upholstery Leather (174) .. .. "	1084	0.10
33	Production of Suede Garment Leather (176) .. .. "	1121	0.15
34	Belt Lacing (188) .. .. "(J)	188	0.10
35*	Running Shoes and Football Boots .. ..	—	—
36	Chrome Retanned Leather from Rejected Goat Skins (198) .. .. "(a)	198	0.15

### 2—Impact Schemes

37	Belting Leather (24) .. .. C.D.	741	0.15
38	White Buck Leather (80) .. .. "	910	0.10
39	Chappal Factory (81) .. .. "	911	0.10
40	Shoe Upper (300 Pairs) (98) .. .. "	960	0.15
41	Children Shoes (99) .. .. "	961	0.10
42	Chappals (137) .. .. "	1164	0.10
43*	Cycle Seat (Complete) (146) .. ..	—	—
44*	Picker Savers from Buffalo Hides (155) .. ..	—	—
45	Lining Leather (158) .. .. "(E)	158	0.10
46	Belting Leather (159) .. .. "(E)	159	0.10
47*	Gasmeter & Governor Diaphragm Leathers (188) .. ..	—	—

### 3—Towards Better Technique

48	Footwear Bulletin No. 1(4) .. ..	—	Unpriced
49	Footwear Bulletin No. 2(5) .. ..	—	"
50	Leather for Sports Goods (15) .. ..	—	"
51	Leather for Sports Goods through Combination of Tannage (18) .. ..	—	"
52	Leather Top for Cycle Saddles (22) .. ..	—	"
53	Footwear Bulletin No. 3 (Upper Closing) (25) .. ..	—	"
54	Preparation of Belting Leather to I.S.I. Specifications (26) .. ..	—	"
55	Glowing Leather (27) .. ..	—	"
56	Manufacture of Round Leather Belting (29) .. ..	—	"
57	Footwear Bulletin No. 4 (43) .. ..	—	"
58*	Manufacture of Cemented Sandles (with cork vedges) (45) .. ..	—	"

(1)	(2)	(3)	(4)
59	Lace Leather (46) .. .. .	—	Unpriced
60	Manufacture of Leather Goods e.g. Suit-cases, Port-Folios etc.(53) .. ..	—	"
61	Some Aspects of Leather Manufacture Bulletin No. 1 (68) .. .. .	—	"
62*	Shoes Upper Pattern Grading (71) ..	—	"
63@	Right Leather for Right Jobs—Leather Top for Cycle Seats (86) .. ..	—	"
64@	Right Leather for Right Jobs—Finishing Leather Top for Cycle Seats (89) ..	—	"
65	Right Leather for Right Jobs—Solid Round Leather Belting for Industrial Use by Vegetable Tannage (Part III) (91) .. .. .	—	"
66	Right Leather for Right Jobs—Solid Round Leather Belting for Industrial Use by Vegetable Tannage (Part IV) (92) .. .. .	—	"
67	Prime Quality East India Tanned Skins (105) .. .. .	—	"
68	Production of Football Leather (126) ..	—	"
69	Simplified Chrome Tanning (134) ..	—	"
70	Roller Skins from E.I. Tanned Sheep Skins (149) .. .. .	—	"
71	Agra Type of Bottom Shoe Finishes—(171)	—	"
72	Chrome Tanning of Cow Hides followed by Chinese (176) .. .. .	C.D.	977 0.10
73	Chamoise Leather (177) .. .. .	"	974 0.10
74	Industrial Leather (197) .. .. .	"	975 0.20
75	Footwear (Modern Method of Production (198) .. .. .	..(M)	198 0.20
76	Practical Methods of Liming in Tanning Industry (202) .. .. .	..(M)	202 0.10
77	East India Tanning Process for Goatskins (203) .. .. .	"	— —
78	Diaphragm Leather (208) .. .. .	C.D. (M)	208 0.10
79	Full Chrome Gloving Leather (209) ..	.. (M)	209 0.10
80	Proper Technique for the manufacture of Best Quality Leather Shoes on Mechanised Lines (231) .. .. .	.. (M)	231 0.25
81	Airforce Derby Shoes (240) .. .. .	.. (M)	240 0.10
82*	Preparation of Insole for Hand Welted Shoes (259) .. .. .	—	—
83*	Cemented Shoes & Sandals (260).. ..	—	—

#### 4. Analysis & Planning Reports

84	Leather Footwear (Northern Region) (4N)	C.D.	unpriced
85	Leather Footwear .. .. . (Eastern Region) (4E)	"	495 0.45

(1)	(2)	(3)	(4)
86*	Leather Footwear .. .. (Southern Region) (4S)	C.D.	
87	Picking Band & Leather Belting .. .. (Western Region) (40W)	„ 551	0.40
88	Leather Goods .. .. (Southern Region) (48S)	„ 671	0.35
89	Leather Tanning Industry .. .. (Southern Region)	„ 1008	0.90
90	Leather Tanning Industry .. .. (All India) (64)	—	—
<i>5. Statistical Report</i>			
91	A <sub>1</sub> Statistical Analysis of Small Scale Units of Footwear and Other Leather Product Industry (1)	C.D. 823	0.40

## SPORTS GOODS INDUSTRIES

Sl. No.	Title and Number	Symbol Number	Price Re. P.
(1)	(2)	(3)	(4)
1. Small Industry Schemes			
1	Shuttlecocks (99) .. .. .	C.D.	1036 0.10
2	Carrom Boards (134) .. .. .	"	643 0.15
3	Manufacture of Football covers (150) ..	"	705 0.15
4	Tennis and Badminton Rackets (152) ..	"	714 0.15
5	Rough Blanks for Hockey Blades (170) ..	"	1064 0.10
6*	Legguards & Gloves (186) .. .. .	—	—
2. Impact Schemes			
7	Cricket Bats (55) .. .. .	"	791 0.10
8	Volley Ball Nets (56) .. .. .	"	792 0.10
3. Towards Better Technique			
9	The Manufacture of Shuttlecocks (48) ..	C.D.	— unpriced
10	Tennis & Badminton Rackets (63) ..	"	— "
11	How to manufacture Football (168) ..	"	— "
12*	Tennis & Badminton Rackets (226) ..	"	— "
4. Analysis & Planning Reports			
13	Sports Goods (Northern Region) (1N)	C.D.	640 0.40
14	Sports Goods (Southern Region) (1S) ..	"	633 0.45
5. Statistical Reports			
15	Sports Goods Industry (8) .. .. .	C.D.	1152 0.25

## WOOD BASED INDUSTRIES

Sl. No.	Title and Number	Symbol Number	Price Re.	P.
(1)	(2)	(3)	(4)	
<i>1. Small Industry Schemes</i>				
1*	Wood Sheathed Slate Pencils (2) .. ..	C.D.	286	0.10
2	Model Carpentry Workshop (33) .. ..	"	310	0.15
3	A Small Carpentry Unit (72) .. ..	"	1057	0.10
4	Splints & Vencers (136) .. ..	"	654	0.10
5	Medium Sized Saw Mill (139) .. ..	"	658	0.10
<i>2. Impact Schemes</i>				
6	Packing Cases (4) .. ..	"	735	0.10
7	Production of Doors & Windows on Commercial Bases (41) .. ..	"	759	0.10
8	Quality Photo Frames & Painted Photo Frames (43) .. ..	"	790	0.10
9	Wooden Fittings & Accessories for Electric Wiring (87) .. ..	"	934	0.10
10	Furniture (117) .. ..	"	886	0.10
11	Precision Shoe Last (121) .. ..	"	891	0.10
12*	Furniture, Doors and Windows (139) .. ..	"	—	—
13	Wood Screws (151) .. ..	" (E)	151	0.10
14	Sawing & Wood Seasoning (152) .. ..	" (E)	152	0.10
15	Wooden Toy Industry (153) .. ..	" (E)	153	0.10
16	Handlooms and its accessories (154) .. ..	" (E)	154	0.10
17*	Wood Wool (166) .. ..	"	—	—
18*	Radio Chasis (170) .. ..	" (E)	170	0.10
19*	Furniture (560 Chairs and 190 Tables per month)			
<i>3. Towards Better Techniques</i>				
20	Increasing the Life of Wooden Patterns (8) .. ..	C.D.	—	—
21	Right Approach to Shoe Last Making (170) .. ..		—	—
<i>4. Analysis &amp; Planning Reports</i>				
22	Woodbased Industry (Southern Region) (45S) .. ..	C.D.	628	0.40
23	Wooden Furniture (Northern Region) (62N) .. ..	C.D.	1088	0.70



(1)	(2)	(3)	(4)
<i>5. Technical Experts Reports</i>			
24	Development of Precision Shoe Last & Last Block Manufacturing Industry in India(5)		
<i>6. Industry Prospects Sheets</i>			
25*	Pencils (10) ..	..	..
	..	..	..
			—

# CHEMICAL INDUSTRIES

Sl. No.	Title and Number	Symbol Number	Price Re. P.
(1)	(2)	(3)	(4)
<i>1. Small Industry Schemes</i>			
1	Writing Inks (9) .. .. .	C.D.	1022 0.15
2	Milk of Magnesia (10) .. .. .	..	314 0.10
3	Nickle Sulphate (11) .. .. .	..	335 0.15
4@	Refining Saltpetre (15) .. .. .	..	347 0.15
5*	Industrial Hand Gloves (17) .. .. .	..	398 0.15
6	Electroplating Unit (18) .. .. .	.. (a)	18 0.15
7	Common Crockery Wares and L.T. Insulators (19)	..	540 0.15
8	Roofing Tiles (20) .. .. .	..	108 0.10
9@	Plastic Toys and Plastic Articles (27) .. .. .	..	398 0.15
10	Liquor Ammonia (38) .. .. .	..	370 0.10
11	Vacuum Flask Industry (40) .. .. .	..	436 0.15
12	Glass Ampoules (41) .. .. .	.. (J)	41 0.15
13@	Glass Phials (42) .. .. .	..	372 0.15
14	Scientific Glass Apparatus (44) .. .. .	..	1208 0.15
15@	Paints and Varnishes (45) .. .. .	..	371 0.15
16	Chalk Crayons (53) .. .. .	..	1038 0.10
17	Vitreous Enamel Wares (55) .. .. .	..	933 0.20
18	Low Tension Porcelain Insulators (77) .. .. .	..	376 0.15
19@	Handmade Matches (81) .. .. .	..	361 0.15
20	Polythene Packing Material (82) .. .. .	..	405 0.15
21	Drawing & Filter Papers (85) .. .. .	..	404 0.15
22	Mosaic Floor Tiles (89) .. .. .	..	554 0.15
23	Hand Moulded Fire Bricks and Special Refractory Shapes (90)	..	440 0.15
24	Table Blowing Glass Toys & Biological Birds (91)	..	441 0.15
25	Decorated Glass Wares (92) .. .. .	..	449 0.10
26*	Prestressed Concrete Poles (93) .. .. .	..	442 0.15
27	Fruit & Vegetable Preservation (94) .. .. .	..	1083 0.10
28	Cutting of Glass Articles (95) .. .. .	..	475 0.10
29	Hollow Glass Beads (96) .. .. .	..	476 0.10
30	Salt Glazed, Sewer Pipes (98) .. .. .	..	486 0.15
31	Transfer Decoration, Gold Lining & Painting on Crockery Articles (100)	..	491 0.10
32	Boot Polish (102) .. .. .	..	534 0.15
33*	Chrome Pigments (108) .. .. .	..	513 0.15
34@	Absorbant Cotton (109) .. .. .	..	514 0.10

(1)	(2)	(3)	(4)
35@	Clinical Thermometers .. .. .	C.D.	537 0.15
36@	Glass Toys (112) .. .. .	"	575 0.15
37*	Reclamation of Lead Antimony, Alloy from Battery Scrap (118)	"	538 0.10
38@	Quality Socks Knitted with Elastics Threads (122)	"	527 0.15
39@	Braided Cords & Taps with Elastic Thread (123)	"	528 0.10
40@	Modern Glassware Sets (125) .. ..	"	574 0.10
41	Glass Items specially Suitable for Adver- tisement and Publicity (126)	"	552 0.10
42	Sodium Silicate (127) .. .. .	"	557 0.10
43	Industrial Alcohol (129) .. .. .	"	564 0.10
44	Sodium Sulphate (132) .. .. .	"	641 0.10
45	Manufacture of Bone Meal (133) .. ..	"	627 0.15
46	Rubber Moulded Goods (137) .. ..	"	657 0.10
47	Manufacture of Mirrors (138) .. ..	"	685 0.10
48	Scientific & Graduated Glass Apparatus (142)	"	674 0.15
49@	Fire Clay Bricks (143) .. .. .	"	670 0.10
50	Carbon Papers & Typewriter Ribbons (144)	"	687 0.15
51	Graphite Crucibles .. .. . (Clay Bending) (146)	"	689 0.10
52	Manufacture of Glue from Tannery Waste (148)	"	682 0.15
53	Nylon Fishing Nets (159) .. .. .	"	964 0.15
54	Plastic Raincoats (163) .. .. .	"	943 0.10
55	Reinforced Cement Concrete Spun Pipes (165)	"	932 0.15
56	Glass Tubes (167) .. .. .	"	902 0.10
57	Sponge Rubber Chappals (171) .. ..	"	1082 0.10
58	Retreading of Old Motor Tyres (172) ..	"	1092 0.10
59	Canning of Fish or Prawns (173) .. ..	"	1091 0.10
60*	Galvanised Ice Gans (177) .. .. .	"	— —
61*	Bleach Liquor (178) .. .. .	"	— —
62	Water Proof Packing Paper .. .. .	"	— —
63	Aluminium Stearate (180) .. .. .	"	1142 0.10
64	Artificial Teeth from Methyl Methacry- late Polymer (184)	"	1179 0.10
65*	Crushed Bones for Export (190) .. ..	"	— —
66*	Chemical Stoneware Raschig Rings, Pipes etc. (194)	"	— —
67*	School Type Industrial Thermometers ..	"	— —
68	Cattle Feed (197) .. .. .	" (J)	197 0.10
69*	Rubber Canvas Transmission Belts (199)	"	— —
2. Impact Schemes			
70	Cutlery Items (6) .. .. .	C.D.	0.10

(1)	(2)		(3)	(4)
71	Enamelled Signboards and Hollow-ware (10)	C.D.	753	0·15
72	Table-Moulded Building Bricks (12) ..	"	739	0·10
73	Lenses of Different Powers for Spectacles (13)	"	754	0·10
74	Fruit & Vegetable Preservation & Canning (14)	"	740	0·10
75	Mechanical Plastic Toys (15) ..	"	748	0·15
76	Bakelite Moulding (17) .. ..	"	755	0·10
77	Gaseous Oxygen (18) .. ..	"	756	0·10
78	Electroplating of Motor Cycle and 3 Wheeler Components (23)	"	757	0·15
79	Black Tapes for Electrical Wiring in Calendar-Machine or by Doctor's Blade Technique (27)	"	765	0·10
80	Fire Works Factory (28) .. ..	"	783	0·15
81	Anodizing & Dyeing of Aluminium & its Alloys (29)	"	760	0·10
82	Bakelite Parts (30) .. ..	"	773	0·10
83	M. G. Corrugating & Coarse Wrapping Paper (31)	"	784	0·10
84	Art Papers and Other Coated Papers (32)	"	774	0·10
85	Card Board Boxes, Cartons, Posters, Calendars etc. (33)	"	785	0·10
86	Scent Bottles (39) .. ..	"	782	0·10
87	Rubber Toys and Articles by Plaster Casting Process (40)	"	769	0·10
88	Cycles Tyres & Tubes (53) .. ..	"	795	0·10
89	Plastic Buttons by Compression Moulding (54)	"	798	0·10
90	Card Board from waste paper (59) ..	"	805	0·10
91	Indigosols (62) .. ..	"	919	0·10
92	Phenyle D.D.T. Dusting Powder and D.D.T. Spray (63)	"	920	0·10
93	Cups & Saucers (64) .. ..	"	921	0·10
94	Grease Nipples (69) .. ..	"	1011	0·10
95	Aluminium Sulphate, Magnesium Sulphate (71)	"	923	0·10
96	Article from Perspex Sheets (77) ..	"	907	0·10
97	Hot-dipped Galvanizing of Miscellaneous Articles (79)	"	909	0·10
98	Sealing Wax (93) .. ..	"	929	0·10
99	Dipped Goods from Latex (95) .. ..	"	940	0·10
100	Cycle Pedals (97) .. ..	"	953	0·10
101	Concrete Jalli (104) .. ..	"	956	0·10
102	1500 Cycles Tubes and 25 gross toy Ball Per Day (110)	"	9888	0·10

(1)	(2)	(3)	(4)
103	Stone Ware Jars (111)		
104	Plaster of Paris (16)	C.D.	993 0·10
105	Fire Bricks (90,000 per month) (127)	"	885 0·10
106	Glazed Wall Tiles (133)	"	895 0·10
107	Plastic Gem Clips (135)	"	1187 0·15
108	Slates (142)	"	1148 0·10
109	All Glass Syringes (156)	"	1184 0·10
110*	Potassium Chloride from See Bitternes (162)	" (E)	156 0·10
111	Metal Labels by Photo Anodising Process (163)	"	163 0·10
112	High Alumina Refractories (164)	" (E)	163 0·10
113*	Colouring of Aluminium Surface (Anodising and Fabrication Combined) (165)	—	—
114	Typewriter Ribbon (175)	" (E)	175 0·10
115	Sanitary Wares & Electrical Low Tension Insulators (176)	" (E)	176 0·15
116	Central Painting and Enamelling Unit for Bicycle Industry (177)	" (E)	177 0·15
117	Paper Cones & paper Tubes (179)	" (E)	179 0·10
118	Graded Graphite Powder (193)	" (E)	193 0·10

### 3. Towards Better Technique

119	Some Tips on Alkaline Degreasing Prior to Electroplating Low Carbon Steels (2)	C.D.	— unpriced
120	Cadmium Plating (3)	—	"
121	Enamelling of Cycle Mudguards (6)	—	"
122	Anodic Etching in Electroplating (7)	—	"
123	Decorative Chromium Platings (9)	—	"
124	Liming and Unhairing (16)	—	"
125	Care and Use of Crucibles (20)	—	"
126	Pottery Glazes (24)	—	"
127	Electroplating Cycle Handle Bars, Chain Wheel & Cranks (36)	—	"
128	Zinc Plating (37)	—	"
129	Debrassing Composition (38)	—	"
130	Right Nickel Plating of Ball (39)	—	"
131	Tin Plating (40)	—	"
132	Nickle Pitting (42)	—	"
133	Plating of Surgical Instruments (44)	—	"
134*	Manufacture of Cemented Sandles (With Cork Vedges) (45)	—	"
135	Anodising & Dyeing of Anodised Aluminium (47)	—	"

(1)	(2)	(3)	(4)
		C.D.	unpriced
136*	Various Compositions Used in the Manufacture of Safety Matches, Suggestions for Improvement (54) .. ..	—	"
137	Safety Matches (57) .. ..	—	"
138*	Decorating of Ceramic Article (58) ..	—	"
139	Cutting Fluids (62) .. ..	—	"
140	Do's & Dont's in a Small Pottery Factory (64) .. ..	—	"
141	Hand Chromium Plating (65) ..	—	"
142	Hot Dip Galvanizing (73) .. ..	—	"
143*	Manufacture of Plaster of Paris & Factory Moulds (75) .. ..	—	"
144*	Impregnation of Match Splits (76) ..	—	"
145*	Formation of Ceramic Wares (77) ..	—	"
146*	Bulletin of the Art of Electroplating (79) .. ..	—	"
147	Neem Oil in the Manufacture of Washing Soap (80) .. ..	—	"
148	Silvering of Glass (82) .. ..	—	"
149	Some Data of Brick Manufacture (Part I) (90) .. ..	—	"
150*	Nickeling of Brass Stitch—Buttons (93) .. ..	—	"
151	Food Colours (95) .. ..	—	"
152	Manufacture of Malt Vinegar (96) ..	—	"
153*	Pickles (97) .. ..	—	"
154*	Fruit Preservation Methods—1(98) ..	—	"
155	Fruit Preservation Methods—2(99) ..	—	"
156	Manufacture of Sealing Wax (101) ..	—	"
157	Compounding of Rubber (103) .. ..	—	"
158	Electroplating Problems and Their Remedies (110) .. ..	—	"
159	Slate Pencils, Common Defects, Causes and Remedies (113) .. ..	—	"
160@	Blue Black Writing Ink—Its Manufacture Troubles and Remedies (114) .. ..	—	"
161	Electroplating Problems and Their Remedies (2) (121) .. ..	—	"
162	Sodium Silicate (129) .. ..	—	"
163	Blue Manufacture from Fleshings (130) ..	—	"
164	Rust—A Source of Industrial Waste (133) .. ..	—	"
165	Metal Polishing—Methods of Technique (136) .. ..	—	"
166	Principles of Canning (142) .. ..	—	"

(1)	(2)	(3)	(4)
167	Spoilage Organisms in Canned Foods (143) .. .. .	C.D.	Unpriced
168	Canned Pineapple Products and Their Manufacture (144) .. .. .	—	"
169	Hot Dip Galvanizing Process (45) .. .. .	—	"
170	Drying of Pottery Ware (150) .. .. .	—	"
171	Pottery Glazing (151) .. .. .	—	"
172	Fine Earthen Ware (153) .. .. .	—	"
173	Improved Hand Tools Blacksmithy (154) .. .. .	—	"
174	Stealite Radio Insulators (158) .. .. .	—	"
175	Finishing of Electric Motor Bodies (159) .. .. .	—	"
176*	Thermometers (199) .. .. .	—	"
177	Purification of Mercury (200) .. .. .	—	"
178	Gilding (210) .. .. .	„ (M) 210	0·10
179	Chemical Analysis and Brass (212) .. .. .	„ (M) 212	0·10
180*	Sheet Iron Vitreous Enamelling (214) .. .. .	„ (M) 214	0·10
181	Match Plates with Plaster (216) .. .. .	„ (M) 216	0·10
182*	Refining & Bleaching of Crude Vegetable Oil (219) .. .. .	—	—
183*	French Polish & Bleaching of Shellac (220) .. .. .	„ (M) 220	0·10
184	Cutting Oils for Machining Operations (225) .. .. .	„ (M) 225	0·10
185	Suede Dyeing (227) .. .. .	„ (M) 227	0·10
186	Binders in Foundry Sands (228) .. .. .	„ (M) 228	0·10
187	Vanishing Cream (230) .. .. .	„ (M) 230	0·10
188	White & Khaki Blanco (232) .. .. .	„ (M) 232	0·10
189	Silver Plating (235) .. .. .	„ (M) 235	0·10
190	Barrel Nickel Plating (236) .. .. .	„ (M) 236	0·10
191	Process for Applying Anti-Tarnish Coating on Brass Articles (237) .. .. .	„ (M) 237	0·10
192	Principles of Electroplating of Gold and Gold Alloys (238) .. .. .	„ (M) 238	0·10
193*	Tarnish Resistant Film on Brass Articles (242) .. .. .	—	unpriced
194*	Enamelled Photo Stones for Rings and Pendants (246) .. .. .	—	"
195*	Barrel Plating (247) .. .. .	—	"
196*	Boiled Linseed Oil (249) .. .. .	—	"
197*	Safety Precaution in the Plating Shop (250) .. .. .	—	"
198	Phosphating of Iron and Steel Components Prior to Painting (251) .. .. .	„ (M) 251	0·10
199*	Inspection of Zinc, Cadmium and Tin Plated Coatings (252) .. .. .	—	"

(1)	(2)	(3)	(4)
200*	Chromate Films (253) .. .. .	—	Unpriced
201*	Pickling and Rust Preventive Methods for Iron and Steel Parts (254) .. ..	—	"
202*	Electro Deposition of Copper from Acid Baths (255) .. .. .	—	"
203*	Neutral Copper Plating on Glass Mirrors (256) .. .. .	—	"
204*	Chemical 'Etching and Milling' (257) ..	—	"

*Analysis & Planning Reports—4*

205	Boot Polish (All India) (9) .. ..	C.D.	—
206	Boot Polish (Northern Region) (9N) ..	"	—
207	Electric Porcelain Wares (Low Tension) (Eastern Region) (11E) .. ..	"	416 0.30
208	Electric Porcelain Wares (Low Tension) (Southern Region) (11S) .. ..	"	— —
209	Fruit & Vegetable Preservation & Canning Industry (All India) (15) .. ..	"	445 0.75
210**	Glass Bangles (Southern Region) (16S) ..	"	415 0.25
211	Glass Beads (Northern Region) (20N) ..	"	419 0.30
212	Glass Beads (Eastern Region) (20E) ..	"	418 0.25
213	Glass Beads (Western Region) (20W) ..	"	411 0.35
214	Glass Beads (Southern Region) (20S) ..	"	390 0.30
215	Glass Beads (All India) (20) .. ..	"	1034 1.00
216**	Scientific Glass Apparatus (Southern Re- gion) (22S) .. .. .	"	652 0.30
217**	Scientific Glass Apparatus (Northern Re- gion) (22N) .. .. .	"	321 0.45
218**	Scientific Glass Apparatus (Western Re- gion) (22W) .. .. .	"	382 0.30
219	Scientific Glass Apparatus (Eastern Re- gion) (22E) .. .. .	"	453 0.45
220**	Scientific Glass Apparatus (All India) (22) .. .. .	"	— —
221*	Soap Industry (Southern Region) (30S) ..	"	388 0.35
222	Soap Industry (Eastern Region) (30E) ..	"	630 0.70
223	Paint, Varnish & Lacquer Industry (All India) (31) .. .. .	"	494 0.75
224	Plastic and Rubber Covered Wire (North- ern Region) (32N) .. .. .	"	389 0.30
225	Plastic and Rubber Covered Wire (Western Region) (32W) .. .. .	"	469 0.30
226	Plastic and Rubber Covered Wire (South- ern Region) (32S) .. .. .	"	501 0.25
227	Plastic and Rubber Covered Wire (All India) (32) .. .. .	"	1032 0.60
228	Sanitary Fittings (Southern Region) (33S) .. .. .	"	456 0.30



(1)	(2)	(3)	(4)
229	Sanitary Fittings (Northern Region) (33N) .. .. .	593	0.50
230	Cutlery (Northern Region) 34(N) .. .. .	570	0.55
231	Cutlery (Southern Region) (34S) .. .. .	448	0.30
232	Cutlery (Western Region) (34W) .. .. .	—	—
233	Plastic Goods Industry (Southern Region) (42S) .. .. .	565	0.35
234	Industrial Rubber Goods (Western Re- gion) (43W) .. .. .	594	0.55
235	Three Mineral Acids (Sulphuric, Hy- drochloric & Nitric) (Northern Re- gion (47N) .. .. .	700	0.60
236	Fish curing Industry (Southern Region) (54S) .. .. .	878	—
<i>Industry Prospect Sheets—5</i>			
237*	Clinical Thermometers (2) .. .. . C.D.	1117.24	0.15
238	Glass Ampoules (24) .. .. . C.D.	1117.24	0.15
239	Polythene Tubing (27) .. .. .	1117.27	0.15
240*	Calcium Carbonate (25/60) .. .. .		
241	Spectacle Frames (26/60) .. .. .	1117.26/60	0.15
<i>Statistical Reports—6</i>			
242	Soap Industry (4) .. .. .	1053	0.35
243	Scientific Glassware & apparatus (7) .. .. .	1134	0.25
244	Paints & Varnishes (10) .. .. .	(P)/10	0.20
<i>Technical Expert Reports—7</i>			
245	Electroplating and Galvanising (1) .. .. .	—	—

# ELECTRICAL INDUSTRIES

Sl. No.	Title & Number	Symbol Number	Price (Re. P)
(1)	(2)	(3)	(4)
<i>I—Small Industry Schemes</i>			
1	Storage Batteries (21) .. .. .	C.D. 1128	0·15
2	Electrical Accessories (22) .. .. .	" 363	0·15
3	Neon & Glow Sign Industry (43) .. .. .	" 43(J)	0·20
4	Fractional H.P. Motors (Fitted into Electric Hand Tools) (57) .. .. .	" 339	0·15
5	Fractional H.P. Motors (Split Phase-Squirrel Cage Induction Type) (58) .. .. .	" 341	0·15
6	Star Delta Starters and Metal Clad Switches (59) .. .. .	" 337	0·15
7	Cycle Dynamos with Lamp Fittings (61) .. .. .	" 327	0·15
8	Electric Motors (1/6 to 10 H.P.) (62) .. .. .	" 319	0·10
9	Thermostatic Controlled Electric Irons (63) .. .. .	" 395	0·15
10	Automobile Electrical Accessories (64) .. .. .	" 332	0·15
11*	Refrigerators (65) .. .. .	"	
12	Domestic Electric Appliances (66) .. .. .	" 357	0·15
13	Batteries (67) .. .. .	" 421	0·15
14	Assembly of Radio Sets For Medium Wave Band (68) .. .. .	"	
15	Automobile Dynamos (69) .. .. .	" 428	0·15
16	Loud Speakers (70) .. .. .	" 331	0·10
17	Small Chokes Transformers (71) .. .. .	" 359	0·15
18*	C.T.S. Cables (84) .. .. .	" 362	0·10
19	Electric Motors (1 to 10 H.P.) (104) .. .. .	" 509	0·15
20	Combined Switch Fuses (113) .. .. .	" 535	0·15
21*	A.C. Electricity Meters (182) .. .. .	" —	—
22	Fluorescent Tube—light Lamps and Festoon Bulbs (183) .. .. .	" 1175	0·15
23*	Fractional H.P. Motors (192) .. .. .	" —	—
24*	Two Ganged Tuning Condensers (195) .. .. .	" —	—
<i>2—Impact Schemes</i>			
25	Pressed Electrical Insulators (11) .. .. .	C.D. 747	0·10
26	C.T.S. Electric Cables (51) .. .. .	" 794	0·10
27	A.C.S.R. Conductors (58) .. .. .	" 800	0·10

(1)	(2)	(3)	(4)
28	Voice Coils for Loudspeakers (76)	.. CD	906 0.10
29	Fractional H.P. and other Small Electric Motors (106)	.. .. .. "	931 0.10
30	Rubber Insulated Cables (123)	.. .. "	981 0.10
31	Heating Elements (132)	.. .. "	1129 0.10
32	Cylinder Stands (141)	.. .. "	1172 0.10
33	Photo Flash Bulbs (148)	.. .. " (E)	148 0.20
34*	Domestic Electric Appliances (Electric, Heaters, Hot Plates, Electric Irons & Toasters (161)	.. .. .. "	— —
35	Radio Chasis (170)	.. .. " (E)	170 0.10
36	Miniature Lamps (173)	.. .. " (E)	173 0.10
37	Assembly of Fluorescent Lamp Starters (178)	.. .. " (E)	178 0.10
38	*Gang Operated Air Break Switches (187)	C.D.	— —
39	Pen Type Electrical Potential Testers (190)	.. .. .. " (E)	190 0.10

### 3—Towards Better Technique

40	Electric Motor in Winding	.. ..	C.D.	—	Unpriced
41	Fractional H. P. Motors (34)	.. ..		—	"
42*	Raw Materials Required for the Manufacture of Rubber Coated Cables (69)				
43*	Hints for the Manufacture of Electric Motors (94)	.. ..		—	"
44	Induction of Storage Batteries—Symptoms, Causes and Remedies (116)	.. ..		—	"
45	Troubles of Storage Batteries—Symptoms, Causes & Remedies (117)	.. ..		—	"
46	Troubles of Storage Batteries—Symptoms, Causes & Remedies (119)	.. ..		—	"
47	Electric Hand Tools (Care & Maintenance) (120)	.. ..		—	"
48	Rewinding of 3-Phase Induction Motor (122)	.. ..		—	"
49	Acetylene Generators for Low Pressure Welding Plant (125)	.. ..		—	"
50	Power Press (139)	.. ..	C.D.	598	0.15
51	Induction Motors (172)	.. ..		—	Unpriced
52	Noise Free Induction Motors (196)	.. ..		976	0.15
53*	Electric Motors (206)	.. ..	C.D.	—	Unpriced
4*	Alignment of Superheterodyne Radio Receivers (223)	.. ..		—	"
55	Service Data Charts for Servicing Superheterodyne Receivers (239)	.. ..	(M)	239	0.20

(1)	(2)		(3)	(4)
<i>4—Analysis &amp; Planning Reports</i>				
56	Automobile Batteries (All India) (5)	..	—	Unpriced
57	Electric Brass Lamp Holders Bayonet Type (All India) (5) (10)	.. .. C.D.	303	0.35
58	Domestic Electrical Appliances (Motor Type) Northern Region (39N)	.. .. "	532	0.40
59	Domestic Electrical Appliances (Motor Type) (Western Region) (39W)	.. .. "	680	0.45
60	Domestic Electrical Appliances (Heater Type) (Northern Region) (41N)	.. .. "	549	0.45
61	Domestic Electric Appliances (Heater Type) (Southern Region) (41S)	.. .. "	550	0.25
62	Domestic Electrical Appliances (Heater Type) (Western Region) (41W)	.. .. "	1007	0.60
63	Domestic Electric Appliances (Heater Type) (Eastern Region) (41E)	.. .. "	690	0.35
64	Electric Motors (Southern Region) (49S)	.. .. "	672	0.50
65	Bakelite Electrical Accessories (Southern Region) (50S)	.. .. "	701	0.35
66	Domestic Wireless Receiver Sets, Components and Accessories (All India) (58)	.. .. "	1065	0.65
67	Electric Fans (All India) (59)	.. .. "	1058	0.55
68	Electric Motors (All India) (61)	.. .. "	1063	1.05
<i>5—Industry Prospect Sheets</i>				
69	Electric Motors (1)	.. .. "	1117.1	0.20
70	Domestic Wireless Receivers Sets, Components & Accessories (3)	.. .. "	1117.3	0.15
71	Electric Fans (5)	.. .. "	1117.5	0.15
72	Electric Irons (18)	.. .. "	1117.18	0.20
73	Electric Horns (28)	.. .. "	1117.28	0.15
74	Automobile Batteries (20/60)	.. .. "		

# ENGINEERING INDUSTRIES

Sl. No.	Title & Number	Symbol Number	Price (Rs. P.)
1	2	3	4
<i>1. Small Industry Schemes</i>			
1 *	Tool Room Shop (3) .. .. .	C.D. 307	0-15
2 *	Small Centre Lathes (4) .. .. .	" 296	0-20
3 @	Panel Pins & Wire Nails (7) .. .. .	" 288	0-15
4	Cast Iron Soil Pipes (13) .. .. .	" 1006	0-10
5	Cast Iron Foundry (30) .. .. .	" 1127	0-10
6	Hexagonal and Square Head Machine Screws (35) .. .. .	" 485	0-15
7 @A	Pattern Shop (36) .. .. .	" 365	0-10
8	Brass Utensils (37) .. .. .	" 377	0-10
9	Cast Iron Metric Weights (80) .. .. .	" 379	0-15
10 @	Mushroom Type Automobile Valves (86) .. .. .	" 437	0-15
11	Safety Pins (87) .. .. .	" 438	0-15
12	Stainless Steel Utensils (103) .. .. .	" 508	0-15
13	Steel Furniture (110) .. .. .	" 515	0-10
14	Bolts and Nuts (114) .. .. .	" 517	0-15
15	Mild Steel Round Drums (116) .. .. .	" 518	0-15
16	Aluminium Hinges, Tower Bolts & Socket Bolts (119) .. .. .	" 529	0-15
17 *	Steel Castings from Steel Scrap & Cast Iron Scrap by Use of Electric Furnace (120) .. .. .	" 531	0-10
18	Pilot Foundry for Jobbing Works (130) .. .. .	" 586	0-10
19	Staple Pins (131) .. .. .	" 585	0-15
20	Automobile Repair Shop (135) .. .. .	" 653	0-15
21	General Heat-treatment Shop (140) .. .. .	" 659	0-15
22	Pendulum Clocks (141) .. .. .	" 669	0-15
23	Hand-Lift Pumps & Centrifugal Circulating Pumps and Fittings (151) .. .. .	" 715	0-15
24	Type Foundry (154) .. .. .	" 779	0-10
25	Blackheart Malleable Iron Foundry (155) .. .. .	" 788	0-15
26	Trouser Buckles (168) .. .. .	" 998	0-15
27*	Bicycle Bottom Bracket-Axle (175) .. .. .	—	—
28*	Wood Planer Knives (181) .. .. .	—	—
29	Vices (Mechanics Vice & Pipe Vice) (185) .. (J)	185	0-10
30	Cold Rolled Mild Steel Butt Hinges (187) .. (J)	187	0-15
31	Spindle Type Speed Counters (191) .. .. .	" (J) 191	0-10
32	Spanners & Hand Tools (193) .. .. .	" (J) 193	0-10

(1)	(2)	(3)	(4)
<i>2. Impact Schemes</i>			
33	Gem Clips & Paper Pins (1) .. ..	C.D.	734 0·10
34	Metal Cutting Hacksaw Blades (2) .. ..	"	744 0·10
35	Machine Tools (3) .. ..	"	731 0·15
36	General Blacksmithy Unit (5) .. ..	"	729 0·10
37	Metal Pedalling Cars and Jeeps (7) .. ..	"	736 0·10
38	Drawing Boards & Tee Squares (8) .. ..	"	733 0·10
39	Bicycle Carriers (9) .. ..	"	745 0·10
40	Blue Cut Tacks (16) .. ..	"	752 0·15
41	Wrought Iron & Cast Iron Pulleys (19) .. ..	"	746 0·10
42	High Speed Steel Milling Cutter (20) .. ..	"	749 0·10
43	Bottle Cleaning Twisted in Wire Brushes (21) .. ..	"	737 0·10
44	Jobbing Workshop (22) .. ..	"	738 0·15
45	Round Drums (25) .. ..	"	758 0·15
46	Casing, Caping & Other Electrical Accessories (26) .. ..	"	742 0·10
47	Call Bells (34) .. ..	"	775 0·10
48	Metal Tripod Stand for Cameras (35) .. ..	"	766 0·10
49	Drafting Stand (36) .. ..	"	767 0·10
50	Padlocks (37) .. ..	"	786 0·10
51	Jobbing Workshop for Manufacture of Hand Tools (38) .. ..	"	768 0·10
52	Link Clips (42) .. ..	"	770 0·10
53	Paper Pins (44) .. ..	"	776 0·10
54	Gem Clips (One Million Numbers) (45) .. ..	"	771 0·10
55	Machined Bolts & Nuts (46) .. ..	"	761 0·10
56	M. S. Washers (47) .. ..	"	777 0·10
57	Mechanical Toys, Motor Cars, Buses, Lorries, Locomotives, Drum Beating Monkeys (48) .. ..	"	812 0·15
58	Automobiles, Locomotives, Aeroplanes, Ships & Tankers (49) .. ..	"	813 0·15
59	Mechanical Toys Operated by Springs (50) .. ..	"	793 0·15
60	Laundry Irons (52) .. ..	"	797 0·10
61	Coil Spring for Valves used in Fuel En- gines (57) .. ..	"	799 0·10
62	Instrument Gears of All Types (60) .. ..	"	950 0·10
63	Collets (61) .. ..	"	915 0·10
64	$\frac{1}{2}$ " Brass Cocks (Screw Down Type) (65) .. ..	"	922 0·10
65	Spring Washers (66) .. ..	"	916 0·10
66	Mild Steel Split Cotter Pins (67) .. ..	"	967 0·10
67	Aluminium Utensils (68) .. ..	"	951 0·10
68	Non-ferrous Metric Weights (70) .. ..	"	957 0·10

(1)	(2)	(3)	(4)
69	Sewing Machine Hand Attachments (72)	C.D.	924
70	Table Glass Blowing Machinery & Equipment (74) .. .. .	"	958
71	Sewing Machines (75) .. .. .	"	905
72	Sewing Machines & Parts (78) .. .. .	"	908
73	Water Meter (82) .. .. .	"	917
74*	Horse & Bullock Shoe Nails (83).. .. .	"	—
75*	Gem Clips (84) .. .. .	"	—
76	Paper Pins (22 Tons per Annum) (85) .. .. .	"	1010
77*	Machine Vices (86) .. .. .	"	—
78*	Drafting Machines for Drawing Offices	"	—
79*	Gagaris (Mortar Pans) (89) .. .. .	"	—
80	'U' Clamps and Centre Bolts of Automobile Springs (90).. .. .	"	937
81	Panel Pins Making Machine (91) .. .. .	"	838
82	Crank Shaft Forgings (92).. .. .	"	928
83	Bicycle Handles (94) .. .. .	"	939
84	Cycle Brake Parts (96) .. .. .	"	930
85	Small Springs (100) .. .. .	"	898
86	Bicycle Hubs (101) .. .. .	"	912
87	Shoe Tacks (102) .. .. .	"	954
88	Bevel Gears (103) .. .. .	"	955
89	Paper Pins (6½ Tons per Annum) (105) .. .. .	"	1009
90	Milling Cutters (107) .. .. .	"	980
91*	Galvanized Buckets (12" Size) (108) .. .. .	"	—
92*	Hexagonal & Square Wire Netting (109)	"	—
93	Hand Press Machine (112) .. .. .	"	989
94	Bicycle Chains (113) .. .. .	"	990
95	Stainless Steel Utensils (114) .. .. .	"	991
96	Jobbing Workshop (Textile) (115) .. .. .	"	992
97	Bicycle Mudguards (118) .. .. .	"	887
98	Buckles (119) .. .. .	"	888
99	Jacob Type Chucks (120) .. .. .	"	889
100	Pliers, Pincers & Nippers (122) .. .. .	"	890
101	Call Bells & Buzzers (125).. .. .	"	893
102	Tools (124) .. .. .	"	892
103	Steel Castings (126) .. .. .	"	894
104	Automobile Spares (Liners & Pistons) (128)	"	896
105	Jobbing Workshop for Agricultural Implements (129) .. .. .	"	897
106	Horse & Bullock Shoe Nails (5½ Tons per Month) (130) .. .. .	"	1153
107	Steel Melting by Electric Furnace (134)	"	1131
108	Spanners for Automobiles (136) .. .. .	"	1162
109*	Buckets (140) .. .. .	"	—

(1)	(2)	(3)	(4)
110	Automobile Components such as Studs, Screws Belts & Nuts and Pins etc. (143)	C.D.	1182 0.10
111	Air Guns (145) .. .. .	"	1192 0.15
112*	Cycle Seat (Complete) (146) .. ..		
113	Sanitary Brass Fittings (Cistern Valves, Stop Cocks etc.) .. .. .	.. (E)	149 0.15
114	8" Re-rolling Mills for Steel Billets & Steel Scrap etc. (150) .. .. .	.. (E)	150 0.15
115	A Small Units for Centreless Grinding (157) .. .. .	.. (E)	157 0.10
116	Live Centres (Ball Bearing Centres) (160)	.. (E)	160 0.20
117	Bailing Hoops & Box Strappings (167) ..	.. (E)	167 0.15
118*	Wire Staples (163) .. .. .	.. (E)	168 0.10
119	Ungraded Brass Wire Drawing Plant (169)	.. (E)	169 0.15
120	Bob Pins & Hair Pins (171) .. ..	.. (E)	171 0.10
121*	Hypodermic Needle (172) .. .. .	—	—
122	Garment Hook & Eyes (174) .. ..	.. (E)	174 0.10
123	Steel Trusses (180) .. .. .	.. (E)	180 0.20
124	Simple Microscope & Telescopes (181) ..	.. (E)	181 0.10
125*	Hand Tools (182)		
126	Precision Tool Room for Precision Instrument Industries (183) .. ..	.. (F)	183 0.10
127	Drawing Instruments (184) .. ..	.. (E)	184 0.10
128	Umbrella Ribs (186) .. .. .	.. (E)	186 0.10
129	Gland Packing for Locomotive Piston Rods (189) .. .. .	.. (E)	189 0.10
130	Precision Plain Cylindrical Plug Gauges (192) .. .. .	.. (E)	192 0.20
131	Cans for Automatic Screw Machines (194)	—	—
132	Silencers for Automobiles (195) ..	.. (E)	195 0.15
133	Radial Drilling Machines (196) .. ..	.. (E)	196 0.15

### 3. Towards Better Technique

134	Case Hardening of Steel (1) .. ..	Unpriced
135	Modern Practical Blacksmithy (11) ..	"
136	Heat Treatment of High Speed Steels (12)	..
137	Cupola Operation (13) .. .. .	..
138	Care & Maintenance of Cupola (14) ..	..
139	Forging of High Speed Steels (17) ..	..
140	Balancing of Rotors (19) .. .. .	..
141	Some Precautions Required to Melt Brass Scrap (21) .. .. .	..
142	Common Casting Defects (23) .. ..	..
143	Plate Pattern & Match Plate Pattern (28)	..



(1)	(2)	(3)	(4)
144	Electric Motor Winding (33) .. ..		Unpriced
145	Tinning of Cast Iron (41) .. ..		"
146	Limits and Fits (49) .. ..		"
147*	Single Point Cutting Tools (51) .. ..		"
148	Defects in Brass Ingots and Billets and their Remedies (52) .. ..		"
149	Power Requirements of Machine Tools Lathe (56) .. ..		"
150*	Die-Cast Part of Fractional Horse Power Motors (59) .. ..		"
151*	Some Important Notes on Heat Treatment (60) .. ..		"
152	Grinding & Processing of Raw Materials (61) .. ..		"
153	Some Useful Hints on Heat Treatment of Tool Steel (66) .. ..		"
154	Press Tools (70) .. ..		"
155*	Bottom Attachment (74) .. ..		"
156*	Scrap Investigation in Foundry (81) ..		"
157	Shop Tools—Their use and Maintenance Twist Drill (85) .. ..		"
158@	Joining of Metals—Forge Welding (87)		"
159	Heat Treatment of Steel Tools (88) ..		"
160*	Welding Frames, Common Welding Faults and their Rectification (102) ..		"
161	Selection of Grinding Wheels (104) ..		"
162	Heat Treatment of Parts from Mild Steel—I (106) .. ..		"
163	Heat Treatment of Parts from Mild Steel—II (107) .. ..		"
164	Design of Pattern in Foundries (1) (108)		"
165	Design of Pattern in Foundries (2) (109)		"
166	Defects in Castings & Their Remedies (11)		"
167	Applications of Jigs & Fixtures (112) ..		"
168	Stainless Steel in Model Surgical Instru- ments (115) .. ..	"	"
169@	Design of Patterns in Foundries (3) (118)		"
170	Foundry Practice—Methods of Running & Riser (131) .. ..		"
171	Malleable Iron Casting (135) .. ..	610	0·10
172	Micrometer & Vernier Calipers (137) ..		Unpriced
173	Press Tools (141) .. ..	601	0·15
174	Machine Tools Building (146) .. ..		Unpriced
175	Drawing Tools (152) .. ..		"
176	Improved Hand Tools—Blacksmithy (154)		"
177	Manufacturing Defects—Causes and Re- medies (157) .. ..		"

(1)	(2)	(3)	(4)
178	Improved Hand Tools for Carpenters (158) .. .. .		Unpriced
179	Proto-Type Machines (161) .. .. .		"
180	Gating—Pouring and Riser of Castings (162) .. .. .		"
181	Deep Drawing of Sheet Metals (166) .. .. .		"
182	Toggle Clamps (178) .. .. .	C.D.	978 0·10
183	Designs on Weight Driven Pendulum Clocks (187) .. .. .	"	965 1·30
184	Designs & Manufacture of Jigs & Fixtures (188) .. .. .	"	945 0·10
185	Machinery & Plant Layout (189) .. .. .	"	946 0·10
186	Defects in Welding & Methods of Testing of the Same (190) .. .. .	"	963 0·10
187	Methods of Calculating Consumption of Oxygen & Acetylene Gas for Welding (191) .. .. .	"	947 0·10
188	Tube Bending & Loading Materials (192) .. .. .	"	933 0·10
189	Foundry Sand Control (193) .. .. .	"	925 0·20
190	Casting Defects Due to Moulding Sand (194) .. .. .		926 0·10
191*	Bearing (201) .. .. .		
192*	Drop Forging (204) .. .. .		
193*	Safety Measures for a Foundryman (205) .. .. .		
194	Cutting Speeds & Feeds (207) .. .. .	..(M)	207 0·20
195	Metallurgical Consideration for Quality Production of Machine Tool Castings (211) .. .. .	..(M)	211 0·15
196	Upsetting (217) .. .. .	..(M)	217 0·10
197*	Quick Preparation of Moulds & Cores by Carbon Dioxide Process (218) .. .. .		
198	Gears (221) .. .. .	..(M)	221 0·15
199	Installing & Lavelling of the Lathe (222) .. .. .	..(M)	222 0·10
200	End Sealing of Tubular Elements (224) .. .. .		Unpriced
201	Wedge Chill Test in C.I. Foundries (229) .. .. .	..(M)	229 0·10
202*	Workshop Practice in Machinery of Plastics (233) .. .. .		
203	Single Spindle Automatic Screw Machines (234) .. .. .		
204	Gaggers, Chaplets and Wedges for the use in the Foundries (241) .. .. .		
205*	Shrinkage & Contraction of Casting Alloys (243) .. .. .		
206*	Prevention of Slag from Entering the Mould in a Cast Iron Foundry to Get Good Castings (244) .. .. .		

(1)	(2)	(3)	(4)
207*	General Information to an Operator Regarding C. pola Charge (245) .. ..		
208*	Stainless Steel & Their Heat Treatment (248) .. ..		
209*	Die Steels & Their Heat Treatment (258)		

#### 4. Analysis and Planning Reports

210	Sewing Machines & Parts (Northern Region) (2N) .. ..	—	—
211	Sewing Machines & Parts (Western Region) (2W) .. ..	C.D.	443 0.45
212	Sewing Machines & Parts (Southern Region) (2S) .. ..	"	472 0.30
213	Sewing Machines & Parts (Eastern Region) (2E) .. ..	"	629 0.30
214	Sewing Machines & Parts (All India) (2) .. ..	"	1012 1.05
215**	Bicycles & Parts (Eastern Region) (3E) .. ..	"	343 0.55
216**	Bicycles & Parts (Western Region) (3W) .. ..	"	384 0.70
217**	Bicycles & Parts (Northern Region) (3N) .. ..	"	— —
218**	Bicycles & Parts (Southern Region) (3S) .. ..	"	383 0.50
219**	Bicycles & Parts (All India) (3) .. ..	"	— —
220	Bicycle Rickshaw Parts Industry in Bihar (6) .. ..	—	—
221	Hand Tools (Northern Region) (7N) .. ..	"	419 0.30
222	Hand Tools (Eastern Region) (7E) .. ..	"	342 0.30
223	Hand Tools (Southern Region) (7S) .. ..	"	418 0.30
224	Hand Tools (Western Region) (7W) .. ..	"	— —
225	Hand Tools (All India) (7) .. ..	"	1013 1.15
226**	Builders Hardware (Northern Region) (8N) .. ..	"	325 0.40
227**	Builders Hardware (Eastern Region) (8E) .. ..	"	402 0.30
228**	Builders Hardware (Western Region) (8W) .. ..	"	420 0.40
229**	Builders Hardware (Southern Region) (8S) .. ..	"	386 0.45
230**	Builders Hardware (All India) (8) .. ..	"	— —
231	Beam Scales (Northern Region) (12N) .. ..	"	330 0.40
232**	Beam Scales (Eastern Region) (12E) .. ..	"	444 0.25
233**	Beam Scales (Southern Region) (12S) .. ..	"	349 0.30
234**	Beam Scales (All India) (12) .. ..	"	— —
235//	Automobile Leaf Springs (All India) (13) .. ..	"	426 0.40
236	Agricultural Implements (Northern Region) (14N) .. ..	"	325 0.55

(1)	(2)	(3)	(4)
237	Agricultural Implements (Eastern Region) (14E) .. ..	C.D. 387	0.45
238	Agricultural Implements (Western Region) (14W) .. ..	.. 420	0.50
239	Agricultural Implements (Southern Region) (14S) .. ..	.. 429	0.60
240	Agricultural Implements (All India) (14) .. ..	.. 900	1.65
241	Padlocks (Northern Region) (17N) .. ..	.. 318	0.40
242	Padlocks (Eastern Region) (17E) .. ..	.. 385	0.35
243	Padlocks (Southern Region) (17S) .. ..	.. 322	0.30
244	Padlocks (All India) (17) .. ..	.. 1025	0.95
245	Industrial Fasteners (Northern Region) (19N) .. ..	.. 463	0.55
246	Industrial Fasteners (Eastern Region) (19E) .. ..	.. 324	0.40
247	Industrial Fasteners (Western Region) (19W) .. ..	.. 447	0.30
248	Industrial Fasteners (Southern Region) (19S) .. ..	.. 446	0.30
249	Diesel Engines (Stationary Type) (Northern Region) (21N) .. ..	.. 452	0.35
250	Diesel Engines (Stationary Type) (Eastern Region) (21E) .. ..	.. 416	0.25
251	Diesel Engines (Stationary Type) (Western Region) (21W) .. ..	.. 423	0.65
252	Diesel Engines (Stationary Type) (All India) (21) .. ..	.. 869	1.15
253	Wood Screws, Wire Nails & Panel Pins (Northern Region) (23N) .. ..	.. 460	0.45
254	Wood Screws, Wire Nails & Panel Pins (Eastern Region) (23E) .. ..	.. 416	0.35
255	Wood Screws, Wire Nails & Panel Pins (Western Region) (23W) .. ..	.. 354	0.50
256	Wood Screws, Wire Nails & Panel Pins (Southern Region) (23S) .. ..	.. 454	0.30
257	Wood Screws, Wire Nails & Panel Pins (All India) (23) .. ..	.. 881	1.40
258	Domestic Utensils (Northern Region) (24N) .. ..	.. 465	0.35
259	Domestic Utensils (Eastern Region) (24E) .. ..	.. 547	0.45
260	Domestic Utensils (Western Region) (24W) .. ..	.. 323	0.60
261	Domestic Utensils (Southern Region) (24S) .. ..	.. 366	0.50
262	Domestic Utensils (All India) (24) .. ..	.. —	1.65
263	Cotton Textile Machinery Spare Parts (All India) (25) .. ..	.. 297	0.95
264	Umbrella Ribs (All India) (26) .. ..	(g) 26	0.30
265	Machine Tools (All India) (27) .. ..	.. 455	0.50
266	Surgical Instruments (All India) (28) .. ..	.. 328	0.45
267	Centrifugal Pumps (Southern Region) (29S) .. ..	.. 329	0.25
268	G. I. Malleable Pipe Fittings Industry (Northern Region) (35N) .. ..	.. 569	0.30

(1)	(2)	(3)	(4)
269	Pipe Fittings (Southern Region) (35S)	C.D.	485 0.25
270	Umbrella Assembly Industry (Southern Region) (36S)	"	(g)36(s) 0.25
271*	Synthetic Diamond Cutting (Southern Region) (44S)	"	— —
272	Flash Light Cases (Torches) (Eastern Region) (46E)	"	661 0.35
273	Automobile Body & Trailor Building (Southern Region) (51S)	"	819 0.35
274	Scientific Instruments (All India) (53)	"	862 1.70
275	Foundry Industry (55S)	"	985 0.35
276	Oil Stoves & Pressure Lamps (All India) (60)	"	1103 0.60
277*	Malleable Casting Industry (All India) (66)	"	— —

#### 5. Industry Prospect Sheets

278	Bifurcated Rivets (6)	.. .. .	C.D.	1117.6	0.15
279*	Safety Pins (7)	.. .. .	"	—	—
280*	Paper Pins & Gem Clips (8)	.. .. .	"	—	—
281*	Crown Corks (9)	.. .. .	"	—	—
282	Linen Metallic, or Cotton-cum-Metallic Measuring Tapes (11)	.. .. .	"	1117.11	0.15
283	Scientific Instruments (12)	.. .. .	"	1117.12	0.20
284*	Bicycles (13)	.. .. .	"	—	—
285*	Machine Screws (14)	.. .. .	"	—	—
286*	Mechanical Toys (15)	.. .. .	"	—	—
287	Snap Fasteners (17)	.. .. .	"	1117.17	0.20
288	Hair Pins (21)	.. .. .	"	1117.21	0.15
289	Expanded Metals (22)	.. .. .	"	1117.22	0.10
290*	Bicycles Chains (33)	.. .. .	"	—	—
291	Spindle Inserts (37)	.. .. .	"	1117.37	0.10
292*	Starters (62)	.. .. .	"	—	—
293	Clocks & Watches (2/61)	.. .. .	"	1117.2/61	0.15
294*	Wire Netting & Wire Mesh (16/60F)	.. .. .	"	—	—
295	Picking Sticks (35/60)	.. .. .	"	1117.35/60	0.10
296	Shoe Eyelets (44)	.. .. .	"	1117.44	0.15
297	Hacksaw Blades (3/61)	.. .. .	"	1117.3/61	0.15

#### 6. Statistical Reports

298	Bicycles & Bicycle Industry (3)	.. .. .	C.D.	1024	0.30
299	Diesel Oil Engines & Parts (5)	.. .. .	"	1000	0.25
300	Surgical Instruments (6)	.. .. .	"	1061	0.25
301	Sewing Machines & Parts (9)	.. .. .	"	1190	0.20
302	Small Machines & Machine Tools Industry (11)	.. .. .	"	(p)11	0.15

(1)	(2)	(3)	(4)
<i>7. Technical Experts' Reports</i>			
303	Development of Lock Industry (2) ..		Unpriced
304	Improvement of Small Foundries in India (3)		—
305	Drawing & Surveying Instruments (7) ..	C.D. 286	0.15
<i>8. Other Informative Publications</i>			
306	Master Layout for Bicycle Frames ..	C.D.	0.87
307	Assembly and Manufacture of Clocks, Time Pieces and Watches .. ..		Unpriced
308	Manufacture of Radio Components in Large and Small Scale Sector—Licensing .. Policy and Procedure .. ..		

## NON-ENGINEERING INDUSTRIES

Sl. No.	Title & Number	Symbol number	Price Re. P.
(1)	(2)	(3)	(3)
<i>1. Small Industry Scheme</i>			
1@	Tin Cans & Tin Printing (88) .. ..	C.D. 439	0.15
2@	Fishing and Landing Nets (101) .. ..	" 502	0.15
3*	Brush Ware (117) .. ..	" 519	0.15
4	Production of Garments (128) .. ..	" 563	0.10
5	Umbrella Assembly Unit (145) .. ..	" 668	0.10
<i>2. Impact Schemes</i>			
6	Woollen Mufflers (73) .. ..	C.D. 952	0.10
7	Braided Shoe Laces and Cords (131) .. ..	" 1068	0.10
8	Paint Brushes (144) .. ..	" 1189	0.15
9*	Cotton Ropes from Cotton Waste Yarn (147) .. ..	—	—
10	Reeled Sewing Thread (191) .. ..	" (E)191	0.10
<i>3. Analysis &amp; Planning Reports</i>			
11	Hosiery Industry (All India) (18) .. ..	C.D. 292	1.05
12	Brushware Industry (All India) (56) .. ..	" 901	0.65
13	Toys and Dolls Industry (All India) (63) .. ..	" 1165	0.55
<i>4. Industry Prospect Sheets</i>			
14	Fountain Pens (4) .. ..	C.D. 1117.4	0.15
15	Paint-Brushes (23) .. ..	" 1117.23	0.10
16	Tooth Brushes (39/60) .. ..	" 1117.39/60	0.15

# INDUSTRIAL MANAGEMENT AND ORGANISATION AND GENERAL INFORMATION

Sl. No.	Title & Number	Symbol Number	Price Re.	P.
(1)	(2)	(3)	(4)	(5)
<i>1. Towards Better Technique</i>				
1	Know your Costs (10) .. .. .			Unpriced
2	Conventional Trade Channels (30) ..			"
3	Sales Organisation (31) .. .. .			"
4	Book Keeping for Small Industrialists(32)			"
5	Limits and Fits (49) .. .. .			"
6*	Observance of Minimum Safety Standard (50)			"
7*	Two Dozen Ideas for Effective Administration (55)			"
8	Human Relations (67) .. .. .			"
9*	Sports Nets and their Manufacture (72) ..			"
10*	Monthly Accounts for Small Industries(78)			"
11	Know the Law "Payment of Wages Act" (83)			"
12*	Business Partnership (100).. .. .			"
13	Industrial Cooperative for Small Industrialists (123)			"
14*	Short Notes on Central Sales Tax Act, 1955 (124)			"
15	Efficient Industrial Purchasing (127) ..			"
16	Better Leather by Improved Tools (128) ..	C.D.	582	0.20
17	Principles of Cost Accounting (138) ..		—	—
18	Materials—Purchasing, Storing & Accounting (140) .. .. .			Unpriced
19*	Factory Planning for Increased Productivity (147) .. .. .			"
20	Effective Business Correspondence (155)..			"
21	Internal Business Organisation (160) ..			"
22	Incentives—Financial and Non-financial (163)			"
23	Office Management for Small Unit (164)			"
24	Production Planning (165) .. .. .			"
25	Depreciation Methods (167) .. .. .			"
26	Export Marketing (173) .. .. .	C.D.	846	1.05
27	Basic Consideration for setting up a Small Scale Unit (174)	"	874	0.10



(1)	(2)	(3)	(4)
28	Economics of Quality (175) .. ..	C.D. 848	0.10
29	A few Suggestions for better Personnel Relations (179) .. ..	" 914	0.10
30	Trade Marks Acts, 1940 (180) .. ..		Unpriced
31	Factories Acts, 1958 (181) .. ..		"
32	Indian Contract Act, 1872 (182) .. ..		"
33	Workmen's Compensation Act, 1923 (183)		"
34	Channels of Distribution—How to Market New Products (184) .. ..	C.D. 949	0.15
35	Salesman's Selling Tools (185) .. ..	" 913	0.10
36	Salesman's Expense Control (186) .. ..	" 899	0.10
37	How to Determine the Skill and the Effort of a Worker (195) .. ..	" (M) 195	0.15
38	Indexing (215) .. ..	" (M) 215	0.15

## 2. Statistical Reports

39	Pattern of Investment by Source of Capital of Small Industrial Unit in Eight Industrial Estates (2) .. ..	C.D. 824	0.40
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## 3. Technical Experts' Reports

40	Possibilities for Improvement in India's Small Scale Industries—German Experts' Report (4) .. ..	C.D. —	—
41	Technical Training Committee Report (6)	516	0.65

## 4. Other Informative Publications

42	Financing Small Industries through Co-operative Banks .. ..		Unpriced
43	Compendium of Lectures and Courses of Study Conducted During the Second Ad-Hoc Training Course in Industrial Economic Investigation in 1956 .. ..		"
44	Industrial Survey of Jammu & Kashmir State .. ..		"
45	Report on the working of the Small Scale Industries Organisation 1956-57 .. ..		"
46	Report on the Working of the Small Scale Industries Organisation 1957-58 .. ..		"
47	Industrial Extension Service .. ..		"
48	State Government Schemes (Three Years' Progress) .. ..		"
49	Training Programme .. ..		"
50	Record Note of Proceedings of the Seminar of Senior Officers of the Small Indus-		

(1)	(2)	(3)	(4)
	tries Organisation held at Bangalore ..		Unpriced (for official use only).
51	Evaluation Report of The Working Group on S.S.I. .. .. .		"
52	Report of the Sub-Committee on Industrial Estates .. .. .	C.D.	814 0.40
53	Procedure for Registration and Assistance		Unpriced (out of stock)
54	Economic Surveys and Information Service		"
55	Report of the Japanese Delegation of Small Scale Industries .. .. .		Unpriced (for official use only).
56	Small Scale Industries Organisation Report for 1958-59 .. .. .		Unpriced
57	Summary of the Recommendations made by S.S.I. Board on the 3rd Five Year Plan .. .. .		"
58	Small Scale Industries Programme & Progress March, 1960 .. .. .		"
59	Report of the Working Group on Programme of work for the Third Five Year Plan .. .. .		Unpriced (for official use only).
60	Facilities for Small Industrialists—What and Where Available .. .. .	C.D.	1116 0.65
61	Report of the Economic Investigation Seminar .. .. .		Unpriced
62	C.S.I. Organisation Report for 1959-60 ..		"
63	Report on Small Industry in India by F.J.N. Stades .. .. .		"
64	Manufacture of Radio Components in Large and Small Scale Sector—Licensing Policy & Procedure .. .. .		"
65	Credit Facilities for Small Scale Industries		Unpriced (out of stock)
66	Design for Industry No. 1 .. ..		"
67	Design for Industry No. 2 .. ..		"
68	Design for Industry No. 3 .. ..		"
69	Design for Industry No. 4 .. ..		"
70	C.S.I. Organisation Report for 1960-61 ..		Unpriced
71	Design for Industry No. 5 .. ..		"

(1)	(2)	(3)	(4)
72	Report of Committee on Dispersal of Industries .. .. .		Unpriced (for official use only).
73	Lessons for Blue Print Reading Class ..		Unpriced
74	Report on the Intensive Campaign in the Distt. of Cannanore, Palghat, Quilon & Alleppey (Kerala State) .. ..		"
75	Programme of Industrial Estates .. ..		"
76	C.S.I. Organisation Report for 1961-62 ..		"
77	Government Assistance to Small Industries in the U.K. .. ..		"
78	You and The Plan .. ..		"
79	Report of the Study Scheme of C.S.I.O. on Visit to the Scandinavian and Netherlands .. ..		Unpriced (for official use only).
80*	Rural Industrial Estates .. ..		Unpriced
81	Report of the International Perspective Planning Team .. ..	C.D.	1237 1.00
82	C.S.I.O. Report for 1962-63 .. ..		"
83*	Foreign Collaboration .. ..		"

#### 5. Topic Research Report

84*	Financing of Small Scale Industries in India (with special reference to 2nd Plan Period) (1) .. ..	—	—
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## हिन्दी प्रकाशन

### चमड़ा उद्योग

क्रम संख्या	योजना का नाम व संख्या	सिम्बल नं०	मूल्य
1	2	3	4
<b>1. लघु उद्योग योजनाएँ</b>			
1	साइकिल की चमड़े की गद्दी का ऊपरी भाग बनाने की योजना । (9)	CD (b) 9	₹ 0.15
2	गाय और बछड़े की खाल से क्रोम चमड़ा बनाने की योजना । (15)	" 1194	0.15
3"	क्रोम और देसी चमड़ा बनाने की योजना । (19)	" 481	0.15
4	मेड़ की खालें कमाने की योजना । (20)	(b) 20	0.10
5	विस्तरवन्द । (22)	(b) 22	0.15
6	औद्योगिक दस्ताने बनाने की योजना । (23)	" 353	0.15
7	तले का चमड़ा । (24)	" 348	0.15
8@	चमड़े का सामान बनाने की योजना । (27)	" 396	0.10
9"	चमड़े के सूटकेस और बटुए बनाने की योजना । (35)	" 434	0.15
10	मसाले में चिपकाई हुई मेंडलें । (51)	" 539	0.10
11	जूते बनाने की योजना । (53)	" 507	0.15
12	मर्दाने जूते बनाने की योजना । (60)	" 544	0.10
13"	जनाने जूते बनाने की योजना । (61)	" 545	0.10
14	चप्पलें बनाने की योजना । (62)	" 546	0.10
15	चप्पलों के लिये भ्रम के कटरे की खाल का चमड़ा । (64)	" 555	0.15
16	चमड़े की जरकियें । (65)	" 656	0.15
17	'ब्रॉक्स' और 'बिलो' चमड़ा । (83)	" 600	0.20
18	क्रोम के फ्रीते । (101)	" 655	0.20

1	2	3	4
19	पश्चिमी ढंग के जूते बनाने की योजना । (110)	CD 679	0.15
20	जूते बनाने का मशीन का कारखाना लगाने की योजना । (127)	" 750	0.15
21	जूते बनाने का छोटा कारखाना । (129)	" 718	0.10
22	कपड़ा बुनने की मशीनों में लगने वाला चमड़े का पट्टा । (133)	724	0.15
23	देसी चमड़े की चप्पलें । (134)	720	0.15
24	शैमॉयस चमड़ा । (139)	" 726	0.15
25	पश्चिमी ढंग के मढ़ने जूते और चप्पलें । (148)	" 811	0.15
26	बचकाने जूते । (149)	" 843	0.15
27	गाँवों में चप्पलों का उत्पादन । (151)	" 827	0.15
28	चमड़े की डस्टशील्ड । (153)	" 863	0.15
29	खेल की वस्तुएँ बनाने के लिये चमड़ा । (154)	" 903	0.15
30	पशुओं के शव से विभिन्न वस्तुओं का उत्पादन । (160)	" 1056	0.15
31	टंगाई के तरीके से चमड़ा कमाना । (161)	" 1055	0.15
32	द्वारा कमाया गया चमड़ा । (162)	" 1069	0.15
33	फौजी बूट । (165)	" 1100	0.15
34	'स्वेड' चमड़ा बनाने की योजना । (169)	" 1144	0.15
35	गर्दियों पर मढ़ने का चमड़ा (अपहोलस्ट्री लैडर) । (175)	" 1191	0.15
36*	दौड़ने और फुटबाल खेलने के जूते (182)	-	-

## 2. उलघुद्योग विकास योजनाएँ

37	मशीन चलाने के पट्टे का चमड़ा । (24)	CD 854	0.15
38	सफेद वक चमड़ा । (80)	" 968	0.15
39	चप्पलों का कारखाना । (81)	" 971	0.15

1	2	3	4
40	जूतों के ऊपरी भाग बनाने की योजना । (98)	CD 1046	0.10
41	चप्पलों का उत्पादन (80 जोड़ी प्रति-दिन) । (137)	„ 1163	0.10
42	भैंस की खाल से 'पिकर सेवर्न' बनाना । (155)	„ (f) 155	0.15
43*	अस्तर का चमड़ा । (158)	—	—

## खेल-कूद सामान उद्योग

क्रम संख्या	योजना का नाम व संख्या	सिम्वल नं०	मूल्य
1	2	3	4

### 1. लघु उद्योग योजनाएं

			पैसे
1	शटलकॉक । ( 74 )	CD 581	0.15
2	कैरम बोर्ड । ( 102 )	„ 660	0.15
3	फुटबाल के खोल । ( 138 )	„ 764	0.10
4	टैनिस और बैडमिन्टन के रैकेट । ( 145 )	„ 780	0.20
5	हॉकी के बल्लों के लिये लकड़ी के अनगढ़ टुकड़े । ( 166 )	„ 1101	0.15
6*	'लेग-गार्ड' और खिलाड़ियों के दस्ताने । ( 180 )	—	—

### 2. लघु उद्योग विकास योजनाएं

7	क्रिकेट के बल्ले । ( 55 )	„ 973	0.15
8	बॉलीबाल के जाल । ( 56 )	„ 1001	0.10

### 3. सुधरी प्रणाली

9	फुटबाल बनाने की विधि । ( 4 )	662	0.20
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## लकड़ी उद्योग

क्रम संख्या	योजना का नाम व संख्या	सिम्बल नं०	मूल्य
1	2	3	4
1. लघु उद्योग योजनाएँ			
1	लकड़ी चढ़ी स्लेट पेंसिलें बनाने की योजना (2)	CD 282	पत्ते 0.15
2	फर्नीचर और लकड़ी का अन्य सामान बनाने की योजना। (17)	„ 333	0.15
3@	लकड़ी का आधुनिक फर्नीचर। (55)	„ 526	0.10
4	लकड़ी की चिराई। (114)	„ 709	0.15
5	लकड़ी की सलाइयाँ और पतली परतें बनाने की योजना। (122)	„ 716	0.15
2. लघु उद्योग विकास योजनाएँ			
6	माल पैक करने की पेटियाँ। (4)	„ 802	0.15
7	विजली की फ्रिटिंग के काम आने वाला लकड़ी का सामान। (27)	„ 868	0.15
8	दरवाजे और खिड़कियाँ। (41)	„ 845	0.15
9	विजली व तस्वीरों के फ्रेम। (43)	„ 866	0.15
10	विजली की फ्रिटिंग के लिये लकड़ी की पट्टियाँ। (87)	„ (f) 87	0.10
11	जूतों के फ्रमे। (121)	„ 1111	0.10
12	फर्नीचर, दरवाजे और खिड़कियाँ (139)	„ 1151	0.10
13	लकड़ी की बारीक छीलन। (166)	„ (f) 166	0.10
14*	कुर्सियाँ और मेजें। (185)	—	—



## रासायनिक उद्योग

क्रम संख्या	योजना का नाम व संख्या	सिम्बल नं०	मूल्य
1	2	3	4
1. लघु उद्योग योजनाएँ			
			पैसे
1	लिखने की स्याही बनाने की योजना । (7)	CD 290	0.15
2	विजली से मुलम्मा चढ़ाने की योजना । (8)	„ 304	0.20
3	सफेद और रंगीन चार्क बनाने की योजना । (10)	„ 413	0.15
4	'मिल्क आॅफ मैग्नीशिया' बनाने की योजना । (113)	„ 467	0.15
5	शोरा साफ करने की योजना । (16)	„ 311	0.15
6	खराब 'निकल कैटेलिस्ट' से 'निकल सल्फ्रेट' बनाने की योजना । (18)	„ 360	0.15
7	काँच के मनके बनाने की योजना । (21)	„ 334	0.10
8	'लिकर अमोनिया' बनाने की योजना । (26)	„ 391	0.10
9	मंगलौरी खपरैल बनाने की योजना । (28)	„ 409	0.15
10	प्लास्टिक के खिलौने और अन्य वस्तुएँ बनाने की योजना । (29)	„ 403	0.10
11	चीनी मिट्टी के बर्तन और इंसुलेटर बनाने की योजना । (32)	„ 473	0.15
12	काँच की चूड़ियाँ बनाने की योजना । (36)	„ 458	0.10
13	रंगलेप और रोगन बनाने की योजना । (38)	„ 1193	0.15
14	'वैक्यूम फ्लास्क' बनाने की योजना । (39)	„ 470	0.15
15	काँच का वैज्ञानिक सामान बनाने की योजना । (44)	„ (b) 44	0.15
16	काँच की शीशियाँ बनाने की योजना (47)	„ 499	0.15

1	2	3	4
17	पोलीथीन की चादरें बनाने की योजना । (56)	CD 577	0.10
18	काँच के सामान पर नक्काशी । (59)	„ 543	0.10
19	काँच के 'एम्पूल' । (66)	„ 560	0.15
20	हाथ से दियासलाईयाँ बनाने की योजना । (67)	„ 562	0.15
21	काँच के पशु पक्षी बनाने की योजना । (71)	566	0.10
22	काँच के पेपर वेट बनाने की योजना । (73)	572	0.10
23	'सोडियम सिलीकेट' । (76)	„ 579	0.10
24	काँच के खिलौने और पक्षी बनाने की योजना । (79)	„ 591	0.10
25	फलों और तरकारियों का संरक्षण । (81)	„ 971	0.15
26	ड्राइंग और फिल्टर कागज बनाने की योजना । (82)	„ (b) 82	0.15
27	पच्चीकारी वाली फर्शी टाइलें । (84)	„ 611	0.15
28	तामचीनी के वर्तन । (85)	„ 634	0.20
29	काँच के मोती । (86)	„ 622	0.10
30	काँच का सजावट वाला सामान । (87)	„ 616	0.10
31	काँच के वर्तन । (88)	„ 617	0.15
32	औद्योगिक मद्यसार बनाने की योजना । (91)	„ 638	0.15
33	बूट पालिश । (95)	„ 646	0.15
34	'एब्जॉरवेंट कॉटन' । (98)	„ 656	0.15
35	नमक की पालिश चढ़े मल पाइप । (99)	„ 650	0.15
36	इंसुलेटर । (104)	„ 664	0.15
37	तापसह ईंटें (रिफ्रेक्टरीज) । (106)	„ 676	0.20
38	चीनी मिट्टी के वर्तनों पर सजावट का काम । (109)	„ 678	0.10
39	हड्डी की खाद बनाने की योजना । (111)	„ 692	0.15

1	2	3	4
40	पोटेशियम परमेगनेट बनाने की योजना । (112)	CD. 686	0.15
41	सोडियम सल्फाइड । (113)	" 691	0.15
42	दर्पण बनाने के लिये काँच पर रुपहला पानी चढ़ाना । (115)	" 710	0.10
43	खड़ की ढली हुई वस्तुएँ । (116)	" 702	0.15
44	तापसह ईंटें (प्रतिदिन 5,000) । (120)	" 704	0.15
45	बैटरी के कचरे से सीसे और सुरमे की मिश्रित धातु निकालने की योजना । (121)	" 711	0.15
46	प्रीस्ट्रेस्ड कंकरीट के खम्भे । (123)	" 712	0.15
47	थर्मामीटर बनाने की योजना । (125)	" 751	0.15
48	'सोडा लाइम' और 'पाइरेक्स' काँच का वैज्ञानिक सामान । (128)	" 722	0.15
49	क्रोम रंग बनाने की योजना । (130)	" 762	0.15
50	कार्बन पेपर और टाइप राइटर के रिबन । (137)	" 725	0.15
51	ग्रेफाइट की कूठालियाँ । (142)	" 743	0.15
52	सरेस बनाने की योजना । (144)	" 778	0.20
53	प्लास्टिक की बरसातियाँ । (158)	" 1066	0.10
54	काँच की नलियाँ । (163)	" 1072	0.10
55	रीइनफोर्स्ड सीमेंट कंकरीट के पाइप । (164)	" 1070	0.10
56	झींगा व अन्य मछलियों की डिब्बाबन्दी । (167)	1102	0.15
57	रंग काटनेवाला घोल (ज्योविंग लिक्वर) । (168)	" 1137	0.25
58	स्वज खड़ की चप्पलें । (171)	" 1139	0.15
59*	साइकिलों के 'वॉटम ब्रैकेट एक्सल' । (172)	—	—
60	पैकिंग का जलनिरोधक कानज । (173)	" 1165	0.15

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61	अलुमीनियम स्टीयरेट । (174)	CD 1166	0.15
62	पुराने टायरों का नवीकरण । (176)	" 176	0.15
63	नकली दांत । (178)	" 178	0.10
* 64	पशु खाद्य । (184)	—	—
* 65	मशीनों के पट्टे (185)	—	—

## 2. लघु उद्योग विकास योजनाएँ

67	तामचीनी की वस्तुएँ । (10)	CD 809	0.15
68	इमारती ईंटें बनाने की योजना । (12)	" 828	0.15
69	चर्मों के शीशे । (13)	" 835	0.15
70	फलों और तरकारियों की डिब्बाबन्दी और संरक्षण । (14)	" 816	0.15
71	प्लास्टिक के चाबी वाले खिलौने । (15)	" 815	0.15
72	वैकेलाइट का सामान । (17)	" 829	0.15
73	ओपजन गैस । (18)	" 833	0.15
74	पुर्जों पर विजली से मुलम्मा चढ़ाना । (23)	" 858	0.20
75	विजली की तारों के लिये काला फीता । (27)	" 826	0.15
76	आतशबाजी । (28)	" 865	0.15
77	अलुमीनियम तथा उसकी मिश्रित धातुओं पर ऑक्साइड की रंगीन परत चढ़ाना । (29)	" 880	0.15
78	वैकेलाइट की वस्तुएँ । (30)	" 856	0.15
79	पैकिंग का नालीदार और मोटा कागज । (31)	" 859	0.15
80	आर्टपेपर । (32)	" 810	0.15
81	गत्ते के डिब्बे । (33)	" 837	0.15
82	इत्र की शीशियाँ । (39)	" 855	0.15
83	खवड़ के खिलौने और अन्य वस्तुएँ । (40)	" 842	0.15

1	2	3	4
84	साइकिल के टायर और ट्यूबें । ( 53 )	CD 966	0.15
85	प्लास्टिक के बटन । ( 54 )	„ 972	0.10
86	बेकार कागज से गत्ता बनाना । ( 59 )	„ 1003	0.10
87	‘इण्डिगोसोल बनाना । ( 62 )	„(f) 62	0.10
88	फिनाइल, डी० डी० टी० डस्टिंग पाउडर और स्प्रे । ( 63 )	„ 1004	0.10
89	साधारण और सजावट वाले पिच प्याले । ( 64 )	„ 1045	0.10
90	ग्रीस निपल । ( 69 )	„ 1054	0.10
91	विभिन्न प्रकार के सल्फेट । ( 71 )	„ 870	0.15
92	काँच फुलाकर विभिन्न वस्तुएँ बनाने की योजना । ( 74 )	„ 874	0.15
93	परस्पैक्स की वस्तुएँ । ( 77 )	„ 872	0.15
94	जस्त की परत चढ़ाना । ( 79 )	„ 873	0.15
95	मोहर लगाने की लाख । ( 93 )	„ 1075	0.10
96	पतले रवड़ की वस्तुएँ । ( 95 )	„ 1104	0.10
97	साइकिल के पैडल । ( 97 )	„ 1092	0.10
98	कंकरीट की जाली । ( 104 )	„ 1109	0.10
99	साइकिल की ट्यूबें और रवड़ की गेंद । ( 110 )	„ 1047	0.10
100	पत्थर के अमृतवान । ( 111 )	„ 1059	0.10
101	प्लास्टर ऑफ पैरिस । ( 116 )	—	—
102	तापसह ईंटें ( 10,000 प्रतिमान ) । ( 127 )	„ (f) 127	0.10
103	दीवार की चमकीली टाइलें । ( 133 )	„ 1185	0.15
104*	प्लास्टिक के जेम बिलप । ( 135 )	—	—
105	पत्थर की स्लेटें । ( 142 )	1170	0.15
106	काँच की सिरिज । ( 156 )	„(f) 156	0.20
107	नमक निकले समुद्री पानी से पोटेशियम क्लोराइड बनाना । ( 162 )	„(f) 162	0.10

1	2	3	4
108	अलुमीनियम की लेबल प्लेट । (163)	CD(f) 163	0.10
109*	अल्युमिना की तापसह ईंटें (अल्युमिना रिफ्रेक्टरीज) । (164)	—	—
110	अलुमीनियम की चीजों की रंगाई । (165)	„ (f) 165	0.15
111	टाइपराइटर के रिबन । (175)	„ (f) 175	0.10
112	सेनिटरी बेयर और इंसुलेटर । (176)	„ (f) 176	0.15
113	साइकिल उद्योग के लिये रंगलेप और तामचीनी चढ़ाने का कारखाना । (177)	„ (f) 177	0.10
114*	कागज के कौन और नलियाँ । (179)	—	—
115*	प्रेफ़ाइड पाउडर को शुद्ध करना । (193)	—	—
116*	ट्रेड रवड़ । (198)	—	—
117*	पाउडर स्नो आदि । (200)	—	—

### 3. सुघरी प्रणाली

118 II	काँच पर रुपहला पानी चढ़ाना । (1)	CD 663	0.10
119*	कपड़े धोने के साबुन में नीम के तेल का उपयोग । (3)	„ 666	0.10
120*	पीतल की चीजों को बदरंग होने से रोकना । (7)	—	—
121*	विजली की मोटरों के खोलों को अन्तिम रूप देना । (12)	—	—

### 4. लघु उद्योग भविष्य समीक्षाएँ (अखिल भारतीय)

122	बुखार देखने के थर्मामीटर । (2)	CD 1115.2	0.15
123	काँच के 'एम्पूल' । (24)	„ 1115.24	0.25

## विजली उद्योग

क्रम संख्या	योजना का नाम व संख्या	मिस्त्रल नं०	मूल्य
1	2	3	4

### 1. लघु उद्योग योजनाएँ

1@ छोटे ट्रांसफार्मर और चोक बनाने की योजना । ( 11)	CD	385	पैसे 0.15
2 विजली का सामान बनाने की योजना । ( 30)	"	356	0.15
3 खड़ चढ़ा केवल बनाने की योजना । ( 33)	"	433	0.10
4 'स्टोरेज बैटरियाँ' । ( 37)	"	459	0.15
5 कम अश्व-शक्ति की विजली की मोटरें । ( 40)	"	474	0.15
6 'स्टार डेल्टा स्टार्टर' और एक फेज के धातु चढ़े स्विच । ( 43)	"	492	0.15
7 'स्क्वैरल केज इंडक्शन' मोटरें । ( 46)	"	498	0.15
8॥ बैटरियाँ बनाने की योजना । ( 48)	"	493	0.15
9 'स्प्लिट फेज स्क्वैरल केज' किस्म की मोटरें । ( 49)	"	503	0.15
10 मोटर गाड़ियों में लगने वाला विजली का सामान । ( 50)	"	504	0.15
11@ मोटरगाड़ियों के डायनेमो । ( 54)	"	525	0.15
12@ रेडियो सेट बनाने की योजना । ( 58)	"	542	0.15
13 साइकिल के डायनेमो । ( 61)	"	558	0.15
14 लाउडस्पीकर बनाने की योजना । ( 69)	"	612	0.15
15 'रेफ्रिजरेटर बनाने की योजना । ( 72)	"	567	0.15
16 निओन गैस की विजली की ट्यूबें । ( 77)	"	584	0.20
17 1 से 10 अश्व शक्ति तक की विजली की मोटरें । ( 126)	"	713	0.20
18 'ग्रॉयरन क्लैंड स्विच' । ( 131)	"	719	0.20

1	2	3	4
19*	विजली के मीटर । ( 183 )	—	—
20*	दो गैंग वाले ट्यूनिंग कन्डेन्सर । ( 186 )	—	—

## 2. लघु उद्योग विकास योजनाएँ

21	विजली के इंसुलेटर ( 11 )	CD 825	0.15
22	कैब टायर चढ़ा विजली का तार । ( 51 )	„ 983	0.15
23	अलुमीनियम कंडक्टर । ( 58 )	„ 1020	0.10
24	लाउडस्पीकर के ध्वनि कॉयल । ( 76 )	„ 879	0.15
25	छोटी और कम अश्व शक्ति की विजली की मोटरें । ( 106 )	„(f) 106	0.10
26	खड़ चढ़े विजली के तार । ( 123 )	„ 1186	0.10
27	हीटिंग एलीमेंट बनाने की योजना । ( 132 )	„ 1130	0.10
28	एसीटिलीन जेनरेटर और सिलिण्डर स्टैंड ( 141 )	„ 1169	0.10
29	फोटो फ्लैश बल्ब । ( 148 )	„(f) 148	0.15
30*	घरों में काम आने वाला विजली का सामान । ( 161 )	—	—
31	रेडियो चैसिस । ( 170 )	„(f) 170	0.10
32	छोटे बल्ब । ( 173 )	„(f) 173	0.25
33*	फ्लोरोसेंट लैम्पों के स्टार्टर । ( 178 )	„(f) 178	0.10
34	विजली के लाइन टेस्टर । ( 190 )	—	—

## 3. सुघरी प्रणाली

34*	विजली के दस्ती औजार । ( 6 )	—	—
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## 4. लघु उद्योग भविष्य समीक्षार्थ (अखिल भारतीय)

35	विजली की मोटरें । ( 1 )	CD 1115.1	0.20
36	घरेलू रेडियो सेट । ( 3 )	„ 1115.3	0.15
37	विजली के पंखे । ( 5 )	„ 1115.5	0.20



## इंजीनियरी उद्योग

क्रम संख्या	योजना का नाम व संख्या	सिम्बल नं०	मूल्य
1	2	3	4
1. लघु उद्योग योजनाएँ			
			पैसे
1	॥ औजार बनाने के कारखाने की योजना । (3)	CD 279	0.15
2	॥ छोटी खरादें बनाने की योजना । (4)	" 288	0.25
3	तार की विरंजियाँ और कीलें बनाने की योजना । (6)	" 295	0.15
4	लोहे के मल-पाइप बनाने की योजना । (14)	" 412	0.10
5	लोहा ढालने के कारखाने की योजना । (25)	" 358	0.10
6	मुड़नशील लोहा ढालने की योजना । (31)	" 430	0.10
7	पीतल के वर्तन बनाने की योजना । (34)	" 457	0.10
8	@ मशीनी नमूने बनाने की योजना । (41)	" 480	0.10
9	चौकोर और छकोर मशीनी पेच । (57)	" 531	0.15
10	इस्पात का फर्नीचर बनाने की योजना । (75)	" 578	0.15
11	@ 'स्टेनलैस स्टील' के वर्तन । (80)	" 587	0.15
12	सेफ्टी पिन बनाने की योजना । (94)	" 645	0.15
13	ढले हुए लोहे के मीट्रिक वाट । (97)	" 647	0.15
14	ढलाई का छोटा कारखाना । (100)	" 651	0.15
15	इस्पाती पेंच और छिवरियाँ । (103)	" 668	0.15
16	मोटरगाड़ियों के बॉल्ब । (105)	" 673	0.15
17	इस्पात की ढलाई । (107)	" 677	0.15
18	सेफ्टीरेजर ब्लेड । (108)	" 684	0.15
19	मोटरगाड़ियों की मरम्मत करने का कारखाना । (117)	" 703	0.15

1	2	3	4
20	छाते बनाने की योजना । (118)	CD 706	0.10
21	दीवार की घड़ियाँ । (119)	„ 707	0.15
22	अलुमीनियम के कब्जे और चटकनियाँ । (124)	„ 717	0.15
23	गोल इस्पाती ड्रम । (132)	„ 723	0.15
24	हीट ट्रीटमेंट । (135)	„ 721	0.15
25	स्टेपल पिन । (140)	„ 727	0.15
26	अलीह मिश्रित धातुओं की सॉचि में दबाव से ढलाई । (141)	„ 728	0.15
27	हैंड पम्प और सेंट्रीफ्यूगल पम्प । (143)	„ 730	0.15
28	टीन के डिब्बों का उत्पादन और टीन की छपाई । (146)	„ 787	0.20
29	छपाई का टाइप । (147)	„ 807	0.10
30	ब्लैकहार्ट किस्म का मुड़नशील लोहा । (150)	„ 836	0.15
31	पतलून के बक्सुए । (155)	„ 1050	0.15
32	वरफ़ के जस्त चढ़े सॉचि । (170)	„ 1145	0.15
33	साइकिलों के 'वांटम ब्रैकेट एक्सल' । (172)	—	—
34	रन्दी के तेग । (177)	„(b)177	0.15
35	शिकंजे । (179)	„(b)179	0.15
36	पट्टों को जोड़ने की कंधियाँ । (बैल्ट लेसिंग) (181)	„(b)181	0.15

## 2. लघु उद्योग विकास योजनाएँ

37	जेम क्लिप और पिन । (1)	CD 712	0.15
38	धातु काटने के आरे । (2)	„ 781	0.15
39	छोटी मशीनें । (3)	„ 801	0.15
40	इस्पात के आँज़ार । (5)	„ 796	0.15
41	छुरियाँ और कैंचियाँ । (6)	„ 789	0.10
42	बच्चों के लिये जीपें और मोटरें । (7)	„ 808	0.15

1	2	3	4
43	ड्राइंग और टी-स्क्वेयर । (8)	CD 803	0.15
44	वाइसिकल के कैरियर । (9)	" 804	0.15
45	छोटी कीलें बनाने की योजना । (16)	" 832	0.15
46	लोहे की घिरनियाँ । (19)	" 994	0.15
47	मिलिंग कटर । (20)	" 840	0.15
48	बोतलें साफ करने के वुरुश । (21)	" 830	0.15
49	साधारण मशीनों की मरम्मत । (22)	" 1043	0.10
50	पाँच गैलन के गॉल ड्रम । (25)	" 871	0.15
51	बुलाने की बंदी । (34)	" 831	0.15
52	कैमरा स्टैंड । (35)	" 849	0.15
53	ड्राफ्टिंग स्टैंड बनाने की योजना । (36)	" 814	0.15
54	ताले बनाने की योजना । (37)	" 857	0.15
55	हाथ के औजार । (38)	" 995	0.15
56	लिक क्लिप बनाने की योजना । (42)	" 834	0.15
57	पेपर पिन । (44)	" 839	0.15
58	जेम क्लिप । (10 लाख प्रतिभास) (45)	" 841	0.15
59	पेच और डिवरियाँ (46)	" 838	0.15
60	इस्पात के वाशर । (47)	" 837	0.15
61	बच्चों के लिये चाबी वाले खिलौने । (1250 गुर्स सालाना) (48)	" 1000	0.20
62	चाबी वाले खिलौने । (49)	" 882	0.15
63	स्प्रिंग वाले खिलौने । (50)	" 979	0.20
64	घोबियों के काम आने वाली इस्तरियाँ (52)	" 980	0.10
65	*आई० सी० इंजनों के वाल्वों के काँयल स्प्रिंग । (57)	—	—
66	घड़ियों और मीटरों की गैरारियाँ (60)	" 1019	0.15
67*	(‘कॉलिट’ बनाने की योजना । (61)	—	—
68	पीतल की आव ईन्जी टूटियाँ । (65)	" 1039	0.10
69	स्प्रिंग वाशर । (66)	" 1044	0.10
70	काँटर पिन । (67)	" 1140	0.10

1	2	3	4
71	अलुमीनियम के वर्तन । ( 68 )	CD 1176	0.10
72	मीट्रिक वाट । ( 70 )	„ 1067	0.10
73	सिलाई मशीनों के हैंड अटैचमेंट । ( 72 )	„ 997	0.15
74	सिलाई की मशीनें । ( 75 )	„ 999	0.15
75	सिलाई मशीनें और पुर्जे । ( 78 )	„ 877	0.15
76	पानी के मीटर । ( 82 )	„ 884	0.15
77	नाल में लगाने की कीलें । ( 83 )	„ 969	0.15
78	जेम क्लिप । ( 84 )	„ 883	0.15
79*	पेपर पिन । ( 22 टन प्रतिवर्ष ) ( 85 )	—	—
80	मशीनी शिकंजे । ( 86 )	„ 1074	0.10
81	ड्राफ्टिंग मशीनें । ( 88 )	„ 1076	0.10
82	तगारियाँ बनाने की योजना । ( 89 )	„ 1078	0.10
83	मोटरगाड़ियों के 'यू' क्लैम्प और सेंटर वोल्ट । ( 90 )	„ 1085	0.10
84	तार की विरंजियाँ बनाने की मशीनें ( 91 )	„ 1079	0.10
85	क्रैंक शाफ्ट । ( 92 )	„ 1077	0.10
86	साइकिल के हैंडल । ( 94 )	„ 1080	0.10
87	साइकिल की ब्रेक के पुर्जे । ( 96 )	„ 1081	0.10
88	छोटे स्ट्रिंग । ( 100 )	„ 1093	0.10
89	साइकिल के 'हव' । ( 101 )	„ 1107	0.10
90	जूतों की कीलें । ( 102 )	„ 1108	0.10
91	'बीवल गियर' । ( 103 )	„ 1094	0.15
92*	कागज में लगाने की पिन । ( 105 )	—	—
93	धातु छीलने के औजार । ( 107 )	„(f) 107	0.15
94*	जस्त चढ़ी बालटियाँ । ( 108 )	—	—
95*	तार की चौकौर और छकोर जाली । ( 109 )	—	—
96*	हैंड प्रैस मशीन । ( 112 )	„ 1110	0.10
97	साइकिल की चेन । ( 113 )	„ 1087	0.15
98*	स्टेनलैस स्टील के वर्तन ( 5 टन प्रतिमास ) । ( 114 )	—	—

1	2	3	4
99	कपड़ा मशीनों के पुर्जे, मुरम्मत आदि । (115)	CD 1048	0.10
100	वाइसिकल के मडगांड । (118)	„(f) 118	0.10
101	बरमा मशीनों के चक (जैकव चक) । (120)	„(f) 120	0.10
102	प्लास, जमूर और कतरनी । (122)	„(f) 122	0.10
103*	औजार बनाने की योजना । (124)	—	—
104	बुलाने की घंटियाँ और बज्र । (125)	„(f) 125	0.10
105	इस्पात के पुर्जों की ढलाई । (126)	„(f) 126	0.15
106*	मोटरगाड़ियों के फालतू पुर्ज । (128)	—	—
107	खेतीवाड़ी के छोटे-मोटे औजार बनाने का कारखाना । (129)	„ 1049	0.10
108	खुरों में नाल लगाने की कीलें । (130)	„ 1033	0.15
109	विजली की भट्ठी से इस्पात गलाने की योजना क्षमता 22 टन प्रति मास । (134)	„ 1132	0.10
110	मोटरगाड़ियों के स्पैनर । (136)	„(f) 136	0.10
111*	वालटियाँ । (140)	—	—
112	मोटरगाड़ियों के पुर्जे । (143)	„ 1167	0.15
113	छरें वाली वृन्दूकें । (एयर गन) (145)	„ 1188	0.15
114	साइकिल की पूरी गट्टियाँ । (146)	„(f) 146	0.10
115*	नलों आदि में लगने वाला पीतल का सामान । (149)	—	—
116*	इस्पात की रीरोलिंग का कारखाना । (150)	—	—
117*	लकड़ी में लगाने वाले पेच । (151)	—	—
118*	हथकरघे और उनके सहायक औजार । (154)	—	—
119*	सेंटरलैस ग्राइंडिंग । (157)	—	—
120	गाँठें बाँधने और पेटियाँ कसने की इस्पाती पत्तियाँ । (167)	„(f) 167	0.15
121*	वायर स्टेपल । (168)	—	—
122*	पीतल की तार खींचने का कारखाना । (169)	—	—

1	2	3	4
123*	वाँच पिन और हेयर पिन । ( 171 )	—	—
124*	इंजेक्शन लगाने की सुइयाँ । ( 172 )	—	—
125	पोशाकों में लगने वाले हुक । ( 174 )	CD(f) 174	0. 10
126*	खुर्दबीन और दूरबीन । ( 181 )	—	—
127	मिस्तरियों के औजार । ( 182 )	—	—
128	औजार बनाने के उपकरण । ( 183 )	„ (f) 183	0. 15
129	ड्राइंग के औजार । ( 184 )	„ (f) 184	0. 10
130	छतरी की तीलियाँ । ( 186 )	„ (f) 186	0. 10
131*	स्वचालित स्कू मशीनों के लिये 'कैम' । ( 194 )	„ —	—
132	मोटरगाड़ियों के साइलेंसर । ( 195 )	„ (f) 195	0. 10
133*	रेडियल वरमा मशीनें । ( 196 )	—	—
134	साइकिलों के फ्रैन्क और चैन व्हील । ( 201 )	—	—
135*	साइकिल की तीलियाँ, निपल और वाशर । ( 202 )	—	—
3. आर्थिक सर्वेक्षण रिपोर्ट			
136	सर्जरी के औजार (अखिल भारतीय)	C.D. 1051	0. 55
4. लघु उद्योग भविष्य समीक्षाएँ (अखिल भारतीय)			
137	सेफ्टी पिन्नें । ( 7 )	C.D. 1115. 7	0. 10
138	आलपिन और जेम क्लिप । ( 8 )	„ 1115. 8	0. 10
139	क्राउन कॉक । ( 9 )	„ 1115. 9	0. 10
140	वैज्ञानिक औजार । ( 12 )	„ 1115. 12	0. 25
141	साइकिलें । ( 13 )	„ 1115. 13	0. 15
142	मशीनी पेच । ( 14 )	„ 1115. 14	0. 25
143	मशीन से चलने वाले खिलौने । ( 15 )	—	—
144*	प्रेस वटन (स्प्रेण फाससर्न) । ( 17 )	—	—
145*	वाइसिकल चैन । ( 33 )	—	—
146*	स्पिन्दल इन्सर्ट । ( 37 )	„ 1115. 37	0. 15
147*	घड़ियाँ । ( 2/61 )	—	—
148	स्टार्टर । ( 62/61 )	„ 1115. 62/61	0. 25

## गैर-इंजीनियरी उद्योग

क्रम संख्या	योजना का नाम व संख्या	सिम्बल नं०	मूल्य
1	2	3	4

पैसे

### 1. लघु उद्योग योजनाएँ

1	लचीले धागों से गुंथी हुई डोरी और फीते बनाने की योजना । ( 90 )	CD 637	0.15
2	पोशाकें बनाने की योजना । ( 92 )	„ 639	0.15
3	जुराव बनाने की योजना । ( 93 )	„ 626	0.15
4	मछली पकड़ने के छोटे जाल बनाने की योजना । ( 96 )	„ 648	0.15
5	बुरुश बनाने की योजना । ( 136 )	„ 763	0.20

### 2. लघु उद्योग विकास योजनाएँ

6*	ऊनी गुलूवन्द । ( 73 )	—	—
7	गुंथे हुए तस्मे और डोरी । ( 131 )	C.D. 1071	0.10
8	रंग करने के बुरुश । ( 145 )	„ 1278	0.20
9*	रद्दी सूत से रस्सियाँ बनाने की योजना । ( 147 )	—	—
10	धागे की रीलें । ( 191 )	„(f) 191	0.10

### 3. लघु उद्योग भविष्य समीक्षायें (श्रविल भारतीय)

11	नापने के फीते । ( 11 )	C.D. 1115.11	0.15
12	रंगलेप करने के बुरुश । ( 23 )	„ 1115.23	0.15

## श्रीयोगिक प्रबन्ध व संगठन और सामान्य जानकारी

क्रम संख्या	योजना का नाम व संख्या	सिम्बल नं०	मूल्य
1	2	3	4
	सुधरी प्रणाली		पैसे
1*	गोदाम का प्रबन्ध । ( 5 )	—	—
2*	मुलम्माकारी को कारखाने में दुर्घटनाओं से बचाव के उपयोग ( 11 )	—	—
	सूचना सम्बन्धी		
1	लघु उद्योगों के लिये सुविधायें ।	111S	0 85
2	लघु उद्योगों को ऋण सुविधायें ।		
3	वार्षिक रिपोर्ट । ( 1960-61 )		
4	वार्षिक रिपोर्ट । ( 1961-62 )		
5	वार्षिक रिपोर्ट । ( 1962-63 )		
6	योजना और आप ।		
7	लघु उद्योगों को सरकारी सहायता ।		
8*	लघु उद्योगों में विदेशी सहयोग ।		

### EXPLANATIONS OF THE SYMBOLS USED

“ Out of stock and under consideration for reprinting.

@ Under reprint \* Under print.

\*\* Under reprint as consolidated AII India Report.

NOTE:— Number given in brackets after the title of every publication is its serial number under the particular series.



APPENDIX III  
LIST OF INDUSTRIAL ESTATES

Place	Progress of Construction		
ANDHRA PRADESH			
1. Sanatnagar	..	..	Functioning
2. Vijayawada	..	..	Do.
3. Samalkot	..	..	Do.
4. Visakhapatnam	..	..	Do.
5. Nandyal	..	..	Do.
6. Warangal	..	..	Do.
7. Karimnagar	..	..	Under construction
8. Nirmal	..	..	Do.
9. Suryapet	..	..	Do.
10. Mehboobnagar	..	..	Do.
11. Nellore	..	..	Preliminaries in progress
12. Prodattur	..	..	Do.
13. Masulipatnam	..	..	Do.
14. Amadalavalasa	..	..	Do.
15. Khammam	..	..	Do.
16. Janagaon	..	..	Do.
17. Hyderabad	..	..	Do.
18. Kisannagar	..	..	Do.
19. Sadlapali	..	..	Do.
ASSAM			
20. Gauhati	..	..	Functioning
21. Dhekiajuli (C)	..	..	Do.
22. Nalberi	..	..	Completed but not functioning
23. Tinsukia	..	..	Preliminaries in progress
24. Sibsagar	..	..	Do.
BIHAR			
25. Patna	..	..	Functioning
26. Darbhanga	..	..	Do.
27. Bihar-sharif (C)	..	..	Do.
28. Ranchi	..	..	Do.
MAHARASHTRA			
29. Kolahpur (P)	..	..	Functioning
30. Hadapsar	..	..	Do.
31. Karad (C)	..	..	Do.
32. Nagpur	..	..	Do.

Place				Progress of construction
33.	Amravati	..	..	Functioning
34.	Kurla	....	..	Do.
35.	Sangli	..	..	Do.
36.	Ichalkaranji	..	..	Do.
37.	Nanded	..	..	Do.
38.	Bapty Road	..	..	Under construction
39.	Parli-Vaijnath (Bhir Dt.)	..	..	Preliminaries in progress
40.	Malegaon	..	..	Do.
41.	Goregaon	..	..	Do.
42.	Miraj (Sangli Dt.)	..	..	Do.
43.	Ahmednagar	..	..	Do.
44.	Kopargaon	..	..	Do.
45.	Chanda	..	..	Do.
46.	Sholapur	..	..	Do.
47.	Parvati	..	..	Do.
48.	Lonawala	..	..	Do.
49.	Jalgaon	..	..	Do.
50.	Aurangabad	..	..	Do.
51.	Ratnagiri	..	..	Do.
52.	Koregaon	..	..	Do.
GUJARAT				
53.	Rajkot	..	..	Functioning
54.	Baroda	..	..	Do.
55.	Udhna (Surat)	..	..	Do.
56.	Gandhidham	..	..	Do.
57.	Bhavnagar	..	..	Do.
58.	Ahmedabad	..	..	Do.
59.	Godra	..	..	Preliminaries in progress
60.	Mehsana	..	..	Do.
61.	Navsari	..	..	Do.
62.	Baroda	..	..	Do.
63.	Mehmedabad	..	..	Do.
64.	Junagarh	..	..	Do.
65.	Amreli	..	..	Do.
66.	Sanjan	..	..	Do.
JAMMU & KASHMIR				
67.	Gandhinagar	..	..	Functioning
68.	Srinagar	..	..	Do.
69.	Bijbebare	..	..	Do.
70.	Anantnag	..	..	Completed but not functioning
71.	Gaudarbal	..	..	Do.
72.	Bandipura	..	..	Do.

Place				Progress of construction
73.	Baramulla	..	..	Completed but not functioning
74.	Sopore	..	..	Do.
75.	Poonch	..	..	Do.
76.	Tral	..	..	Do.
77.	Kathua	..	..	Do.
78.	Akhnoor	..	..	Do.
79.	Shopian	..	..	Under construction
80.	Kulgaon	..	..	Do.
81.	Reasi	..	..	Do.
82.	Sonawari	..	..	Preliminaries in progress
83.	Udhampur	..	..	Do.
84.	Pulwan	..	..	Do.
85.	Pattan	..	..	Do.
86.	R. S. Pora	..	..	Do.
87.	Samba	..	..	Do.
88.	Hiranagar	..	..	Do.
89.	Ramnagar	..	..	Do.
90.	Rajauri	..	..	Do.

## KERALA

91.	Pappanamcode (P)	..	..	Functioning
92.	Ettumanoor	..	..	Do.
93.	Kollakadavu	..	..	Do.
94.	Olavakot	..	..	Do.
95.	Ollur	..	..	Do.
96.	Veli (C)	..	..	Do.
97.	Kozhikode	..	..	Do.
98.	Palayad	..	..	Do.

## MADHYA PRADESH

99.	Indore	..	..	Functioning
100.	Gwalior	..	..	Do.
101.	Bhopal	..	..	Do.
102.	Jabalpur	..	..	Completed but not functioning
103.	Burhanpur	..	..	Do.
104.	Sagar	..	..	Do.
105.	Raipur	..	..	Do.
106.	Ujjain	..	..	Do.
107.	Durg	..	..	Preliminaries in progress
108.	Katni	..	..	Do.
109.	Bilaspur	..	..	Do.

## MADRAS

110.	Guindy	..	..	Functioning
111.	Madurai	..	..	Do.

Place				Progress of construction
112.	Trichy	..	..	.. Functioning
113.	Erode (P)	..	..	Do.
114.	Virudhunagar	..	..	Do.
115.	Marthandam (C)	..	..	Do.
116.	Pettai	..	..	Do.
117.	Tanjore	..	..	Do.
118.	Katpadi	..	..	Do.
119.	Salem	..	..	.. Preliminaries in progress
MYSORE				
120.	Mysore	..	..	.. Functioning
121.	Bangalore	..	..	Do.
122.	Hubli	..	..	Do.
123.	Harihar	..	..	Do.
124.	Mangalore	..	..	Do.
125.	Gulbarga	..	..	Do.
126.	Belgaum	..	..	.. Completed but not functioning
127.	Ramanagaram (C)	..	..	Do.
128.	Bijapur	..	..	.. Preliminaries in progress
129.	Dhandeli	..	..	Do.
130.	Jam Khandi	..	..	Do.
131.	Mercara	..	..	Do.
132.	Shiral Koppa	..	..	Do.
133.	Bijapur	..	..	Do.
134.	Chikkamagalur	..	..	Do.
ORISSA				
135.	Cuttack	..	..	.. Functioning
136.	Rourkela	..	..	Do.
137.	Jharsuguda	..	..	Do.
138.	Berhampur	..	..	Do.
139.	Kendrapara (C)	..	..	.. Completed but not functioning
140.	Baripada	..	..	Do.
141.	Dhenkanal	..	..	.. Under Construction
PUNJAB				
142.	Ludhiana	..	..	.. Functioning
143.	Nilokheri	..	..	Do.
144.	Sonapat (P)	..	..	Do.
145.	Malerkotla (P)	..	..	Do.
146.	Batala (P)	..	..	Do.
147.	Bhatinda	..	..	.. Completed but not functioning
148.	Patiala	..	..	Do.
149.	Naraul	..	..	Do.
150.	Kangra	..	..	Do.

Place				Progress of construction
151.	Industrial Colony	..	..	Preliminaries in progress
152.	Nakodar	..	..	Do.
153.	Kaithal	..	..	Do.
154.	Mohindergarh	..	..	Do.
155.	Babhanpura	..	..	Do.
156.	Haryana	..	..	Do.
157.	Pinjore	..	..	Do.
158.	Una	..	..	Do.
159.	Fatehgarh	..	..	Preliminaries in progress
160.	Kanthunangal	..	..	Do.
161.	Dudhike	..	..	Do.
162.	Fatehabad	..	..	Do.
163.	Sunam	..	..	Do.
164.	Rai	..	..	Do.
165.	Ramgarh Sardaran	..	..	Do.
166.	Dera Gopipur	..	..	Do.
167.	Gurgaon	..	..	Do.
168.	Hissar	..	..	Do.
169.	Ferozepur	..	..	Do.
170.	Rajpura	..	..	Do.
RAJASTHAN				
171.	Jaipur	..	..	Functioning
172.	Bhilwara	..	..	Do.
173.	Makhupura (E)	..	..	Do.
174.	Kotah	..	..	Do.
175.	Jodhpur	..	..	Do.
176.	Sriganganagar	..	..	Do.
177.	Udaipur	..	..	Do.
178.	Bikaner	..	..	Completed but not functioning
179.	Pali	..	..	Do.
180.	Sumerpur	..	..	Do.
181.	Bharatpur	..	..	Completed but not functioning
182.	Alwar	..	..	Under construction
183.	Dholpur	..	..	Preliminaries in progress
184.	Gangapur	..	..	Do.
UTTAR PRADESH				
185.	Kanpur	..	..	Functioning
186.	Agra	..	..	Do.
187.	Naini	..	..	Do.
188.	Deoband	..	..	Do.
189.	Loni (C)	..	..	Do.
190.	Varanasi (C)	..	..	Completed but not functioning
191.	Aligarh	..	..	Do.

Place				Progress of construction
192.	Bhojeeपुरा	..	..	Completed but not functioning
193.	Khalilabad (Basti)	..	..	Under Construction
194.	Bijnor	..	..	Do.
195.	Deorai	..	..	Do.
196.	Etah	..	..	Do.
197.	Jhansi	..	..	Do.
198.	Roorkee	..	..	Do.
199.	Jeya	..	..	Do.
200.	Farrukhabad	..	..	Do.
201.	Lalauraikhera	..	..	Do.
202.	Bahraich	..	..	Do.
203.	Bikpur	..	..	Do.
204.	Lalitpur	..	..	Do.
205.	Khairabad	..	..	Do.
206.	Muzaffarnagar	..	..	Do.
207.	Faizabad	..	..	Do.
208.	Mirzapur	..	..	Do.
209.	Banda	..	..	Do.
210.	Gorakhpur	..	..	Do.
211.	Salempur	..	..	Do.
212.	Unnao	..	..	Do.
213.	Nagina	..	..	Do.
214.	Choharpur	..	..	Do.
215.	Auraiya	..	..	Do.
216.	Clutterbuckganj	..	..	Do.
217.	Golagokarannath	..	..	Preliminaries in progress
218.	Lucknow	..	..	Do.
219.	Meerut	..	..	Do.
220.	Dehradun	..	..	Do.
221.	Azamgarh	..	..	Do.
222.	Moradabad	..	..	Do.
223.	Saharanpur	..	..	Do.
224.	Agra	..	..	Do.
225.	Orai	..	..	Do.
226.	Rundrapur	..	..	Do.
227.	Mahoba	..	..	Do.
228.	Bhalthat	..	..	Do.
229.	Ghosi	..	..	Do.
230.	Phoolpur	..	..	Do.
231.	Chandrawal	..	..	Do.
232.	Shyam Mandi	..	..	Do.
233.	Goverdhan	..	..	Do.
234.	Rampur	..	..	Do.
235.	Sultanpur	..	..	Do.

## Place

## Progress of construction

236.	Atrauli	..	..	..	Preliminaries in progress
237.	Jaunpur	..	..	..	Do.
238.	Barabanki	..	..	..	Do.
239.	Khurja	..	..	..	Do.
240.	Shahjahanpur	..	..	..	Do.
241.	Lakhimpur-Kheri	..	..	..	Do.
242.	Ferozabad	..	..	..	Do.
243.	Mathura	..	..	..	Do.
244.	Mainpuri	..	..	..	Do.
245.	Hatras	..	..	..	Do.

## WEST BENGAL

246.	Baruipur (P)	..	..	..	Functioning
247.	Kalyani (C)	..	..	..	Do.
248.	Saktigarh	..	..	..	Do.
249.	Howrah	..	..	..	Completed but not functioning
250.	Siliguri	..	..	..	Under construction
251.	Baruipur	..	..	..	Preliminaries in progress

## DELHI

## UNION TERRITORIES

252.	Okhla	..	..	..	Functioning
253.	Badli (C)	..	..	..	Under construction

## TRIPURA

254.	Arundhutinagar (C)	..	..	..	Functioning
255.	Udaipur	..	..	..	Preliminaries in progress
256.	Kumarghat	..	..	..	Do.

## HIMACHAL PRADESH

257.	Solan (C)	..	..	..	Functioning
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## PONDICHERRY

258.	Thattanchavadi	..	..	..	Functioning
259.	Karikal	..	..	..	Preliminaries in progress

## MANIPUR ADMN

260.	Tekyal	..	..	..	Do.
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C : Community Development Blocks.

P : Pilot Project Areas.

#### APPENDIX IV

### TERMS AND CONDITIONS OF LOANS FROM LIFE INSURANCE CORPORATION OF INDIA FOR FINANCING ESTABLISHMENT OF INDUSTRIAL ESTATES

- (i) The loan is not to exceed 60 per cent of the total cost of the estate.
- (ii) Before any loan from the Corpn. is drawn the Cooperative or Company must satisfy the Corpn. that it has raised the balance of 40 per cent either by way of capital or partly by way of capital and partly by way of State Govt. loans;
- (iii) The loan from the Corpn. should be drawn either in a lump sum or in instalments within one year from the date of sanctioning the loan;
- (iv) The loan will be repayable by not more than 13 equal annual instalments of principal, the first instalment to be paid on the expiry of 3 years from the date on which the first instalment of the loan was drawn and the last not later than the end of fifteen years;
- (v) The rate of interest which the Corpn. will charge on the loan will be fixed by the negotiation in each case;
- (vi) The State Govt. will give 100 per cent guarantee for the loan advanced, both on principal and interest;
- (vii) Subsidy, if any, in the matter of rent is to be met by the State Govt.;
- (viii) The case of each estate will be examined by the Director of Industries or any other competent officer in consultation with the Development Commissioner for Small Scale Industries, in the Ministry of Industry and forwarded to the Life Insurance Corpn. after a detailed technical scrutiny as to the location, the industries that would occupy the industrial estate, construction plan etc. The case will then be examined in the Life Insurance Corpn. and its approval will be conveyed to the State Govt. for issue of guarantee;
- (ix) Govt. supervision will be exercised at the construction as well as management stage.
- (x) All general insurance of the Industrial Estate Coop. and Companies and the occupiers of the units should be placed with the Corporation's subsidiary, oriental Fire & General Insurance Co. Ltd.; and
- (xi) In respect of any other matters, the points will be subject to mutual agreement between the Life Insurance Corpn. and the concerned parties.



# APPENDIX V

## LIST OF ITEMS, THE LICENSING OF WHICH TO NON-SCHEDULED ACTUAL USERS IS CENTRALISED WITH A PARTICULAR LICENSING AUTHORITY

S. No. & Part of the ITC Schedule	Description	A.U. Provision during April 1963—March 1964	Licensing authority
(1)	(2)	(3)	(4)
PART II—32(d)	Other types of motors	A. U. applications from the textile industry for the import of variable speed motors and other non-flame proof motors which are not available locally and are required in the specialised types of textile machines will be considered by the JCCL, Bombay on the recommendation of the Textile Commissioner and in consultation with the Directorate General of Technical Development.	Bombay
PART III—I (c)(i)	Cation active finishing agents, synthetic resin finishing agents.	A.U. applications from textile industries will be considered by the J.C.C.I., Bombay in consultation with the Textile Commissioner, Bombay for import of synthetic resin finishing agents.	Bombay
4(5)	Component parts excluding hosiery needles as defined in item No. 72(3) of the first schedule to the Indian Tariff Act, 1934 of machinery specified in clauses (1), (2), (3) and (4) above but excluding those covered by S. No. 68 of Part V of the Schedule.	Actual User applications for import of (i) stainless steel, tubes and cones used in cone and cheese dyeing units and (ii) coir board washers will be considered in consultation with the Textile Commissioner, Bombay.	Bombay

(1)	(2)	(3)	(4)
5(I)(d)	Shuttles .. ..	A.U. applications for import of tape loom shuttles will be considered in consultation with the Textile Commissioner, Bombay.	Bombay
5(I)(k)	Card clothing and card accessories	A. U. applications for special types of lickeria wire and philipson type brushes will be considered in consultation with the Textile Commissioner, Bombay.	Bombay
5(I)(m)	Dobbies ..	A. U. applications for import of Cam dobbies will be considered in consultation with the Textile Commissioner, Bombay.	Bombay
5(I)(o)	Doubling machines	A.U.	Bombay
5(I)(w)	Textile machinery accessories—Others.	(1) A.U. (2) Applications for import of pick-counters from actual users or established importers having firm orders from actual users will be considered provided firm orders for equal number of Pick-counters are placed with the indigenous manufacturers who are on the approved list of the Textile Commissioner, Bombay.	Bombay
5(2)	Component parts of textile machinery.	A.U.	Bombay
6(a)	Knitting machines including hosiery machines to be worked by manual labour or which require for their operation less than one quarter of brake horse power.	A.U. applications will be considered only for replacement purpose in consultation with the Textile Commissioner, Bombay subject to Appendix 17. Applications from hosiery goods manufacturers (not registered under the industries Development and Regulation) Act should be submitted along with the certificate of the Director	Bombay

(1)	(2)	(3)	(4)
		of Industries of the State concerned.	
6(b)	Knitting machines (including hosiery machines and embroidery machines) but excluding knitting machines requiring less than one quarter horse power for their operation.	A. U. applications will be considered only for replacement purpose in consultation with the Textile Commissioner, Bombay subject to Appendix 17. Applications from hosiery goods manufacturers (not registered under the industries Development & Regulation Act) should be submitted along with the certificate of the Director of Industries of the State concerned.	Bombay
6(c)	Component parts for knitting machines, hosiery machines and embroidery machines falling under (a) and (b) above (excluding hosiery needles).	<p>(i) A. U. applications will be considered in consultation with the Textile Commissioner, Bombay subject to Appendix 17. Applications from hosiery goods manufacturers not registered under the Industries (Development and Regulation) Act should be submitted along with a certificate of the Director of Industries of the State. The applicants should give the details of the spares required to be imported and the value thereof for each item.</p> <p>(ii) Licences granted will not be valid for the import of component parts of hosiery cylinders specified in Appendix 17.</p>	Bombay

## PART IV

150

Rubber raw

- .. Import of the following grades of Rubber raw will be licensed to Actual Users in consultation with the technical authorities concerned subject to such conditions as the licensing authority may deem fit to impose :—
- (a) Crepe rubber other than Sole Crepe;
- C.C.I.

1)	(2)	(3)	(4)
		(b) Sheet rubber; (c) Latex; (d) Synthetic rubber; and (e) Reclaimed rubber.	
154	Cork manufactures, not otherwise specified.	A. U. applications from the Sports goods industry for import of shuttle cock cork bottoms will be considered by the D.C. C.I. (C.L.A.), New Delhi.	C.L.A
157-158	Printing paper	Applications from quality printers for import of Art paper will be considered by C.C.I., New Delhi.	C.C.I.
174(a)	Raw flax and all other unmanufactured textile materials, n.o.s. excluding raw jute.	A.U. applications from Actual Users will be considered in consultation with Textile Commissioner, Bombay. Applicants should furnish along with their applications the documentary evidence in support of their consumption of raw flax during the years 1954-55 to 1957-58.	Calcutta
174(b)	Raw jute	Applications from Jute Mills will be considered in consultation with the Jute Commissioner, Calcutta. Licences will be valid for three months at a time.	Calcutta
206	Manufactures of wool, nos., including felt, etc	A. U. applications from Actual Users will be considered for certain varieties of woollen felts not indigenously available & which are required for industrial use.	Bombay
PART V			
	Starch and farina	Actual User applications from the Textile industry for import of farina and farina dextrine will be considered by the J.C.C. I., Bombay in consultation with the Textile Commissioner, Bombay	Bombay

(1)	(2)	(3)	(4)
47	Wool, raw and wool tops including wool waste, shoddy wool and woollen rags.	A.U. applications will be considered in consultation with Textile Commissioner, Bombay.	Bombay
65(1-4)(x)	Machinery required for other industries and undertakings.	<p>A.U. applications from Tobacco Industry for import of Tobacco redrying plants and the following spare parts thereof will be considered by the J.C.C.I., Madras :—</p> <p>(i) Galvanised wire mesh apron.</p> <p>(ii) Ball bearings of special types.</p> <p>(iii) L shaped bulb thermometers.</p>	Madras
69-A	Hosiery needles	A. U. applications from Hosiery Manufacturers' Association for import of Hosiery Needles will be considered in consultation with the Textile Commissioner, Bombay.	Bombay
75/V	The following Dairy and Poultry Farming appliances, namely, cream separators, milking machines, etc.	A. U. applications from well-known dairy and poultry farms for import of this item for replacement or small expansion purposes will be considered by D.C.C.I. (C.L.A.), New Delhi in consultation with the Directorate General of Technical Development.	C.L.A.
92(d)	Yarn cloth testing machines, including lap testing machines.	A. U. applications for import of testing machines used in the textile industry will be considered by the J.C.C.I., Bombay in consultation with the Textile Commissioner, Bombay.	Bombay
92(n)	Instruments, apparatus, appliances—other .	(i) A. U. applications from textile and textile accessories industries will be considered by the J.C.C.I., Bombay, in consultation with the Textile Commissioner, Bombay.	Bombay

(1)	(2)	(3)	(4)
		(ii) A. U. applications from the Sugar Industry for import of control and measuring instruments falling under this Sub-S. No. will be considered by D.C.C.I. (C.L.A.), New Delhi on the recommendations of Ministry of Food and Agriculture (Directorate of Sugar and Vanaspati).           C.L.A.	
122(xx)	Dom nuts	A. U.	Madras
122(xxii)	Feathers	A. U. applications for import of Feathers will be considered from the sports goods industry by the D.C.C.I. (C.L.A.), New Delhi.           C.L.A.	
122(xxv)	Decex oil proof compound.	A. U. applications for import of Darex lining compound <i>i.e.</i> , Decex oil proof compound (rubber emulsion) will be considered by Jt. C.C.I. Bombay.           Bombay	
122(1)	Others	Applications from Actual Users only for essential items will be considered in consultation with the technical advisers concerned.           C.C.I.	

APPENDIX VI

FORM OF ESSENTIALITY CERTIFICATE FOR LICENSING TO  
SMALL SCALE INDUSTRIES

For Raw Materials and Components

ESSENTIALITY CERTIFICATE

(For Small Scale Industries only)

*Office of the Director of Industries*

Form of Certificate as to manufacturing capacity and actual requirements to be attached to actual users' import applications from small scale industries.

1. Name and full address of firm.
2. Registration No. allotted to the Small Scale unit.
3. Name of the articles manufactured or proposed to be manufactured.
4. Details of estimated production : capacity, weight, number or volume basis.
5. Details of goods recommended for investment in rupees for :—
  - (i) Machinery and Equipment.
  - (ii) Land and Buildings or Rent of premises.
6. Details of goods recommended for import :
  - (i) Description of goods.
  - (ii) Quantity.
  - (iii) C.I.F. Value in rupees.
7. Has the unit commenced production. If so, indicate the date of commencement of production.
8. Stocks of such raw materials and components in hand and period for which they are likely to last (taking into consideration expected arrivals from Overseas).
9. Past consumption of the above imported raw materials and components (item-wise) during the preceding two licensing periods.
10. In the case of components and raw materials, are there facilities for their utilisation for the purpose in view :
  - (a) Premises.
  - (b) Machinery.
  - (c) Power.
11. Attempts made so far to secure raw materials and components from indigenous sources.

*Certificate* : I am satisfied that this firm is engaged in the production/is desirous of establishing production of the articles or articles mentioned above and that they have a genuine difficulty in obtaining the raw materials etc., the import of which is now recommended.

Director of Industries.....

State of \_\_\_\_\_

## For Machinery and Capital Equipment

## ESSENTIALITY CERTIFICATE

(For Small Scale Industries only)

*Office of the Director of Industries*

Form of Certificate as to manufacturing capacity and actual requirements to be attached to actual users' import application from Small Scale Industries.

1. Name and full address of the firm.
2. Registration No. allotted to the unit.
3. Name of the articles manufactured or proposed to be manufactured.
4. Details of estimated production, capacity, weight, number or volume basis.
5. Existing or proposed block capital investment in Rupees :—

Existing	Proposed	Total
----------	----------	-------

(Rs.)	(Rs.)	(Rs.)
-------	-------	-------

- (1) Machinery & Equipment.
- (2) Land and Building, or
- (3) Rent of premises.
6. Indicate whether the proposed machinery is required for setting up of new units, or for balancing, replacement or expansion of capacity. Attach list of existing machinery and equipment, if any.
7. Details of the machinery recommended for import :
  - (1) Description of the machinery & equipment.
  - (2) Quantity of each item.
  - (3) C.I.F. Value in Rupees.
8. What facilities, if any, has the party as for obtained or is likely to obtain for utilisation of machinery on arrival :—
  - (a) Premises.
  - (b) Power.
9. Indicate the annual requirements of raw materials/components for purpose of manufacture of the articles indicated in Col. 3 (three) :—

Indigenous		Imported	
Qty.	Value	Qty.	Value

Details of the raw material.

10. Attempts made so far to secure machinery and equipment from indigenous sources.
11. Indicate whether the applicant is willing to undertake the export of the products already manufactured or proposed to be manufactured by him.

*Certificate :—*I am satisfied that this firm is engaged in the production/is desirous of establishing production of the article or articles mentioned above and that they have a genuine difficulty in obtaining machinery, equipment the import of which is now recommended.

Director of Industries.....

State of.....



## APPENDIX VII

### SCHEDULE 'B' TO MACHINE TOOL APPENDIX

Licences for the following machine tools will not ordinarily be issued to Actual Users. Licences for machine tools which can be supplanted by the indigenous machines will also not ordinarily be issued; the question of granting a licence to Actual Users can be considered provided full justification is given. Applicants should first contact indigenous manufacturers of machine tools and then, only if indigenous machines cannot do the job, should they apply for import licence :

1. *Centre Lathes*
  - (i) Bench type
  - (ii) Conepulley type
  - (iii) All geared head type upto 13" height of Centre.
2. *Drilling Machines*
  - (a) Hand operated, bench type
  - (b) Power driven
    - (i) Bench type
    - (ii) Piller type upto 2" dia capacity
    - (iii) Radial type below 2½" drilling capacity in steel
    - (iv) Portable electric type up to 1½" capacity and/or kits therefor.
3. *Milling Machines*
  - (i) Horizontal, vertical and universal types upto following dimensions (excluding special types).
    - (a) Longitudinal traverse 44" (1120 m.m.)
    - (b) Cross traverse 12.5" (315 m.m.)
    - (c) Vertical traverse 18" (450 m.m.)
  - (ii) Tool and Die Miller.
4. *Grinding Machines*
  - (i) Double ended bench type
  - (ii) Double ended pedestal type upto 24" diameter.
  - (iii) Universal and cylindrical type upto 350 m.m. Swing and 1350 m.m. between centres.
  - (iv) Tool and cutter grinder swing dia. on cutter head upto 310 m.m.
5. *Boring Machines, Unit Head type, single and double ended.*
6. *Shaping Machines, all sizes.*
7. *Slotting machines upto 16' stroke.*
8. *Planing Machines, all types upto 5' x 5' x 20'.*

9. Sawing Machines
  - (i) Reciprocating Hacksaws upto 12" capacity.
  - (ii) Metal Cutting Bandsaws, horizontal type, upto 9" dia. capacity.
  - (iii) Combination bendsawing and filing machines 18" throat x 12" work height.
  - (iv) Wood Working Bandsaws.
10. Power Hammers
  - (i) Pneumatic type upto 10 cwt. capacity.
  - (ii) Friction Drop upto one ton capacity.
  - (iii) Mechanical, spring type.
11. Sheet Metal Machinery
  - (i) Mechanical Power Presses upto 100 tons capacity.
  - (ii) Hydraulic Presses upto 100 tons capacity.
  - (iii) Press Brakes (capacity 74—100 tons).
  - (iv) Power operated Guillotine shearing machines upto 50" width and 1/8" thickness of Sheet
  - (v) Treadle Guillotine shearing machines upto 36" width.
  - (vi) Hand Presses and Foot Presses, all sizes.
  - (vii) Round Seaming Machines upto 1 gallon capacity.
  - (viii) Universal Nibbling Machines upto 8 m.m. Sheet Thickness.
12. Welding Machines
  - (i) Spot Welders (excluding portable types).
  - (ii) Transformer type upto 300 amps.
13. Furnaces—all types.
14. Pneumatic tools—the following :—
  - (i) Rivetting hammers (capacity upto 1/4" hot rivets).
  - (ii) Aero rivetting hammers (capacity upto 1/4" cold rivets).
  - (iii) Chipping hammers (capacity upto 3-1/2" stroke).
  - (iv) Grinders (capacity upto 8" wheel).
  - (v) Angle grinders and sanders (capacity upto 6" wheel).
  - (vi) Die grinders.
  - (vii) Drills (capacity upto 1-1/4" diameter).
  - (viii) Impact Wrenches (capacity upto 1-1/4" dia. bolt)
  - (ix) Rivet cutters (capacity upto 1").
15. Wood Working Machines—the following :
  - (i) Circular Sawing Machines—Diameter of Saw Blade upto 600 m.m table size up to 800/1500 m.m.
  - (ii) Production Jig Sawing Machines table size upto 350-350 m.m.
  - (iii) Surface Planers and Jointer Planning width upto 300 m.m.
16. Miscellaneous Machines
  - (i) Polishing Machines.
  - (ii) Barbed Wire Manufacturing Machines.
  - (iii) Automatic Wire Straightening and Cutting Off Machine.

- (iv) Extruders for Poly—ethylene lay flat films.
  - (v) Acetylene generators, carbide charge upto 180 lbs.
  - (vi) Wire Drawing Machines, capacity upto 20 B.W.G.
  - (vii) Wood Screw Manufacturing Machines.
  - (viii) Sand Moulding Machines—the following :—
    - (a) Hand squeeze or pneumatic jolt squeeze pin lift moulding machines table size upto 915/635 m.m. and draw capacity upto 260 m.m.
    - (b) Turnover type pneumatic moulding machines table size upto 1220/760 m.m. and draw capacity upto 305 m.m.
  - (ix) High Frequency Plastic Welding and Embossing Machines for PVC sheets—Input capacity upto 1.4 kw.
  - (x) Flexible Shaft Machines and Shaftings.
  - (xi) Permanent Magnetic Chucks—All types.
17. Machine tool accessories
- (i) Lathe Chuck :
    - (a) 4 Jaw upto 24" diameter.
    - (b) S.C. Geared Scroll upto 12" diameter.
  - (ii) Drill Chucks.
  - (iii) Lathe Centres and Mandrels.
  - (iv) Machine Vices, Plain, upto 8" Jaw.
  - (v) Drill Sleeves.
  - (vi) Live Centres upto MT 4

# APPENDIX VIII

## RATE OF INTEREST CHARGED FOR THE LOANS ADVANCED UNDER THE "STATE AID TO INDUSTRIES ACT" BY DIFFERENT STATE GOVERNMENTS

State			Annual rate of interest charged	
1. Andhra Pradesh .. ..			5-1/2%	
2. Assam .. ..			1. Individuals—3%.	
			2. Industrial cooperatives—2-1/2%. In case of failure to utilise the loan for which it has obtained, the rate of interest gets doubled.	
3. Bihar .. ..			1. Loans upto Rs. 50,000 (including supply of machinery on hire purchase system)	3%
			2. Loans exceeding Rs. 50,000 ..	5%
			3. Industrial Cooperatives ..	2 1/2%
4. Delhi .. ..			4 1/2% a rebate of 1 1/2% is allowed if the instalments are paid in time.	
5. Gujarat .. ..			3%	
6. J. & K. .. ..			4 1/2%	
7. Kerala .. ..			1. Individuals .. ..	5 1/2%
			2. Industrial Cooperatives ..	2 1/2%
8. Madhya Pradesh ..			1. Loans upto Rs. 25,000 (other than cooperative societies of workers)	3%
			2. Loans exceeding Rs. 25,000 but not exceeding Rs. 50,000 to small scale industries.	5 1/2%
			3. Loans upto Rs. 2 lacs to small scale industries organized as cooperative societies of workers.	2 1/2%
			4. Loans other than those mentioned in columns (1 to 3) above.	6%
9. Madras .. ..			1. Loans upto Rs. 50,000 ..	3%
			2. Loans exceeding Rs. 50,000 ..	5 1/2%
			3. Industrial cooperatives ..	2 1/2%
10. Maharashtra ..			1. Loans upto Rs. 10,000 ..	3%
			2. Loans exceeding Rs. 10,000 but not exceeding Rs. 25,000.	4%

State	Annual rate of interest charged
	3. Loans exceeding Rs. 25,000 but not exceeding Rs. 50,000
	(a) Konkan, Vidarbha and Maharashtra area .. 5%
	(b) Rest of the state excluding Greater Bombay and Thana (upto the Bassen and Thana creeks) Districts .. 5½%
	(c) Greater Bombay and Thana (upto the Bassen and Thana creeks) Districts .. 6½%
	4. Loans exceeding Rs. 50,000 .. 6½%
11. Mysore .. .. .	7½% subject to a rebate of 2½% for prompt payment of the instalments on or before the due date.
12. Orissa .. .. .	1. Individuals—6% with a rebate of 2% for regular payments.
	2. Industrial cooperatives—2½% with a rebate of ½% for regular payments.
13. Punjab .. .. .	1. Individuals .. .. . 3%
	2. Industrial cooperatives .. 2½%
14. Rajasthan .. .. .	1. Industrial undertaking with a capital investment upto Rs. 2 lakhs .. .. . 3%
	2. Industrial undertakings with a capital investment of Rs. 2 to 4 lakhs .. .. . 4½%
	3. Industrial undertakings with a capital investment of more than Rs. 4 lakhs .. .. . 6%
	4. Industrial cooperatives .. 2½%
15. Uttar Pradesh .. .. .	3%
16. West Bengal .. .. .	1. Loans upto Rs. 50,000 .. 4½%
	2. Loans exceeding Rs. 50,000 .. 6½%
	A rebate of 1½% is allowed in both the cases of instalments with interest thereon are paid on due dates.

## APPENDIX IX

### ADDRESSES OF STATE FINANCIAL CORPORATIONS

1. Andhra Pradesh State Financial Corporation,  
Chapel Road, Gun Foundry,  
Hyderabad (Dn.).
2. Assam Financial Corporation,  
Glenerquart House,  
Shillong.
3. Bihar State Financial Corporation,  
Fraser Road,  
Patna.
4. Gujarat State Financial Corporation,  
Nav Roz Villa, 1st Floor,  
Opp. Lal Bungalow, Mirzapur,  
Ahmedabad-1.
5. Jammu & Kashmir State Financial Corporation,  
Jammu (Tawi).
6. Kerala Financial Corporation,  
Trivandrum.
7. Madhya Pradesh Financial Corporation,  
Shiv Vilas Place, Rajwada Chowk,  
Indore.
8. Madras Industrial Investment Corporation,  
38, Whites Road,  
Royapettah,  
Madras-14.
9. Maharashtra State Financial Corporation,  
United India Bldg.,  
Sir P. M. Road,  
Bombay-1.
10. Mysore State Financial Corporation,  
Andrews Building,  
2-Mahatma Gandhi Road,  
Bangalore.
11. Orissa State Financial Corporation,  
Millan Maidan,  
Cuttack.
12. Punjab Finance Corporation,  
25-C, Sector-5,  
Chandigarh.
13. Rajasthan Financial Corporation,  
Sir Mirza Ismail Road,  
P.B. No. 63,  
Jaipur City.
14. U. P. Financial Corporation,  
7/154, Swaroop Nagar, Kanpur.
15. West Bengal Financial Corporation,  
P. 11, Mission Row Extension,  
Calcutta.

## APPENDIX X

### I. ADDRESSES OF EXPORT PROMOTION COUNCILS

1. The Secretary,  
Engineering Export Promotion Council,  
India Exchange (7th floor),  
Calcutta.
2. The Secretary,  
Cotton Textiles Export Promotion Council,  
Cecil Court, 4th Floor, 26, Landsdowne Road,  
Appolo Bunder, Bombay.
3. The Secretary,  
Silk & Rayon Textiles Export Promotion Council,  
Resham Bhavan, 78, Veer Nariman Road,  
Bombay.
4. The Secretary,  
Plastics & Linoleum Export Promotion Council,  
Patel Industrial Centre, 2nd Floor,  
68, Tardeo Road, Bombay-7.
5. The Secretary,  
Tobacco Export Promotion Council,  
37, Cathedral Road,  
Madras.
6. The Secretary,  
Cashew Export Promotion Council,  
Old Customs House,  
Willingdon Island,  
Cochin-3.
7. The Secretary,  
Mica Export Promotion Council,  
6, Decres' Lane,  
Calcutta.
8. The Secretary,  
Leather Export Promotion Council,  
Marble Hall, 3/38, Vepery High Road,  
Madras.
9. The Secretary,  
Shellac Export Promotion Council,  
11, Sooterkin Street,  
Calcutta-13.
10. The Secretary,  
Chemicals & Allied Products Export,  
Promotion Council, 8th Floor,  
India Exchange, Calcutta.
11. The Secretary,  
Sports Goods Export Promotion,  
Council 5, Rani Jhansi Road,  
New Delhi.

12. The Secretary,  
Spices Export Promotion Council,  
C/o J.C.C.I. & E.,  
19/20, Linghi Chetty Street,  
Madras.
13. The Secretary,  
Marine Products Promotion Council,  
C/o D.C.C. I. & E.,  
T. D. Road, Ernakulam-1.

## II. EXPORT PROMOTION OFFICERS AT THE PORTS

1. Joint Director (Export Promotion),  
Office of the J.C.C.I. & E.,  
Ghulam Mohd. Building,  
Nikol Road, Ballard Estate,  
Bombay.
2. Dy. Chief Controller,  
(Export Promotion),  
Office of the J.C.C.I. & E.,  
4, Esplanade East, Calcutta.
3. Dy. Chief Controller,  
(Export Promotion),  
Office of the J.C.C.I. & E.,  
Post Box No. 1842, Madras.
4. Dy. Chief Controller of Imports & Exports,  
T.D. Road, Ernakulam.

## III. COMMODITY BOARDS

1. The Secretary,  
Tea Board,  
2 & 29, Brabourne Road,  
Calcutta-2.
2. The Secretary,  
Coffee Board,  
Post Box, No. 2,  
Bangalore.
3. The Secretary,  
Coir Board,  
Post Box No. 80,  
Ernakulam (Kerala).
4. The Secretary,  
Central Silk Board,  
95-B, Marine Drive,  
Bombay-2.
5. The Secretary,  
All India Handloom Board,  
Wittet Road, Ballard Estate,  
Fort, Bombay-1.



6. The Secretary,  
All India Handicrafts Board,  
Taj Barracks (Jan Path), Delhi.
7. \*The Secretary,  
Rubber Board,  
Kottayam.

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\*The Rubber Board is not concerned with export promotion of India normally imports rubber to supplement her requirements.

